MASTER

JPL PUBLICATION 81-60

Low-Cost Solar-Array Project

**Four Absolute Cavity
Radiometer (Pyrheliometer)
Intercomparisons at New River,
Arizona**

Radiometer Standards

**Roger S. Estey
Clay H. Seaman**

July 1981

**Prepared for
U.S. Department of Energy
Through an agreement with
National Aeronautics and Space Administration
by
Jet Propulsion Laboratory
California Institute of Technology
Pasadena, California**

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ABSTRACT

Four detailed intercomparisons were made for a number of models of cavity-type self-calibrating radiometers (pyrheliometers). Each intercomparison consisted of simultaneous readings of pyrheliometers at 30-second intervals in runs of 10 minutes, with at least 15 runs per intercomparison. Twenty-seven instruments were in at least one intercomparison, and five were in all four. Summarized results and all raw data are provided from the intercomparisons.

ACKNOWLEDGEMENTS

The intercomparisons of pyr heliometers described in this report were made possible by the organizing efforts of Gene Zerlaut, DSET Laboratories; Edwin C. Flowers, National Oceanic and Atmospheric Administration (NOAA); and Chester V. Wells, Solar Energy Research Institute (SERI). Special thanks are extended to the personnel of DSET Laboratories for the operations planning, the excellent facilities provided, and for their continued efforts in maintaining the hospitable working environment which existed throughout these intercomparisons. The activity was jointly supported by NOAA, Department of Energy (DOE), SERI, and DSET Laboratories. The success of the undertaking was made possible by the enthusiastic participation of all the experimenters. The preparation of this report is sponsored by the Department of Energy and the editing and publication accomplished by Jet Propulsion Laboratory. Sincere thanks are expressed to these organizations, the people mentioned, and all other contributors to the success of this project.

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SECTION 1

INTRODUCTION

This report presents detailed intercomparisons (simultaneous comparisons of several instruments) of a large group of cavity-type self-calibrating radiometers (pyrheliometers) performed at DSET Laboratories, New River, Arizona, during four meetings: November 1-3, 1978, May 2-3, 1979, November 5-9, 1979, and November 17-19, 1980. In an informal way, the consensus of the measurements of this peer group of instruments intercompared at New River represents the standard international (SI) radiometric scale. Five of the instruments (EPAC 11402, EPAC 12843, H-F 15745, PM02, and MK VI 67502) were also intercompared at Davos, Switzerland, in the Fourth International Pyrheliometer Comparison (IPC IV) meeting sponsored in 1975 by the World Meteorological Organization (WMO).

The pyrheliometer is a full-spectrum radiometer with a narrow view angle which makes it peculiarly adaptable to the measurement of direct beam insolation. With these instruments, radiation can be accurately measured by the substitution of electrical measurements of current and voltage.

The instruments are designed to minimize all possible errors (e.g., each instrument is equipped with a cavity detector to create an absorptivity close to unity). The resulting accuracy exceeds that of the blackbody standards maintained by the various standardizing laboratories.

In each intercomparison the participating instruments were mounted on trackers and aligned on the Sun. Simultaneous measurements were made and the rank of each instrument computed relative to the mean of all. Observations were made only when Sun and sky conditions were steady. The data bank contains about 36,000 readings involving 27 instruments. The breakdown is shown below.

<u>Intercomparison</u>	<u>Participating Instruments</u>	<u>Solar Observations</u>
Nov. 1-3, 1978	13	315
May 2-3, 1979	12	441
Nov. 5-9, 1979	16	550
Nov. 17-19, 1980	15	465

Since each instrument is self-calibrating and is presumed to be properly characterized, and since the solar irradiance cannot be standardized independently, instrument accuracy can only be identified by comparison of each instrument's performance with that of a peer group. This is the function of the New River intercomparisons. In each solar observation, the reading of each instrument is ratioed to the mean value of all instruments participating. These ratios are collected and displayed in the tables included in the Appendix of

this report. The very small spread in instrument performance which these tables display represents the state-of-the-art in precision radiometers and the representation of the SI radiometric scale.

Because of the importance of the standard and because of the unique opportunity to present so large a group of precision measurements extending over more than 2 years, this report presents not only the summaries and supporting editorial matter, but the entire original data file as well.

SECTION 2

THE TEST SITE

The test site was on the premises of DSET Laboratories, Inc., located on a desert plateau about 64 km (40 miles) north of Phoenix, Arizona. The parameters were

33° 51' N

112° 10' W

610 m (2000 ft) elevation

289 K (60°F) average temperature

30% average relative humidity

12 hrs average daily sunshine in May

10 hrs average daily sunshine in November

A long sturdy bench with an upper shelf was located in a true east-west direction. Each participant was provided about 1.5 m (5 ft) of working space. The upper shelf was a convenient steady support for mounting the various tracking units. One hundred seventeen volts of grounded alternating current were supplied to the bench at convenient positions. A large trailer located just north of the layout served for meetings and for instrument storage overnight and during inclement weather.

Dates for each intercomparison were selected to ensure the greatest probability of clear sky conditions, and generally, these conditions continued until the middle or late afternoon.

SECTION 3

THE INSTRUMENTS

All of the instruments used in the four intercomparisons are similar, but not identical, cavity-type self-calibrating pyrhelimeters manufactured by one of five organizations. The list of all participants, participating instruments, and sponsors is shown in Table 3-1. Note that 27 instruments were used in at least one intercomparison and five were used in all four.

Each pyrhelimeter compared consists of a sensing unit and a control unit. The sensing unit contains the radiation sensor and the equivalent heater. The control unit contains power supplies, amplifiers, reference voltages, controls, and display. The instruments are broadly similar in construction, mode of operation, and performance. All employ cavity detectors characterized by values of absorptivity very close to 1.000 and means for heating the cavity to the same level as that produced by incident radiation. This permitted radiation measurements to be made as electrical measurements at the heater. (Heater wattage can be measured electrically with far more accuracy than is possible with any direct means for measuring optical radiation.

The most conspicuous design differences among the compared pyrhelimeters are in the readout and control features. The principal technical differences between manufacturers relate to the means employed to measure the equivalence of radiant heating and electrical heating and the means employed to make the readings independent of ambient temperature or temperature gradients in the detector structure or the case.

All of the instruments are provided with diaphragms spaced out in front of the cavity to define the field-of-view which limits the contribution of the circumsolar sky. Traditionally, the field is about 5 degrees included angle. The WMO defines acceptable view angles in terms of the field stop radius, the radius of the aperture stop (or detector), and the length of the collimator. The geometry is shown in Figure 3-1. The half angle values recommended by the WMO are:

$$\text{Opening Angle} \quad Z_o = \tan^{-1} R/L \leq 4^\circ$$

$$\text{Slope Angle} \quad Z_p = \tan^{-1} \left[(R-r)/L \right]; 1^\circ \leq Z_p \leq 2^\circ$$

$$\text{Limit Angle} \quad Z = \tan^{-1} \left[(R+r)/L \right]; \text{not specified.}$$

Table 3-1.: Inventory of Instruments and Experimenters (1 of 4)

Control Number	Model and S/N	Experimenter	Comparison Used In	Affiliation
<p>Manufacturer: The Appley Laboratory, Inc., 12 Sheffield Ave., Newport, RI 02840</p>				
1	EPAC 11399	Verne Marsh J. Wilson	1,3 3	Atmospheric Environment Service Downsview, Ont., Canada
2	EPAC 11402*	Dave Daniels Frank Griffin John Hickey	1 1 1	The Eppley Laboratory Newport, RI 02840
3	EPAC 12843*	Richard Cram Jerome Nimira E. C. Flowers William Morrison	3 3 4 4	National Oceanic and Atmospheric Administration Boulder, CO 80303
4	H-F 14706	Jack Hill Bill Putnam Gene Zerlaut	1 1 1	DSET Laboratories, Inc. New River, AZ 85029
5	H-F 14915†	Dave Daniels Richard Eggeman Frank Griffin John Hickey	1 2 1,2,3,4 1,4	The Eppley Laboratory Newport, RI 02840
6	H-F 14917	An-Ti Chai	2	NASA-Lewis Research Center Cleveland, OH 44135
7	H-F 15745	Edwin Flowers William Morrison	1,2,3,4 1,2,3,4	National Oceanic and Atmospheric Administration Boulder, CO 80303
8	H-F 17142†	Jack Hill Gene Zerlaut William Noorlag	2,3 2,3,4 4	DSET Laboratories, Inc. New River, AZ 85029

*Compared at Davos in 1975.

†Compared at Davos in 1980.

Table 3-1. Inventory of Instruments and Experimenters (2 of 4)

Control Number	Model and S/N	Experimenter	Comparison Used In	Affiliation
9	H-F 18747†	Verne Marsh J. Wilson	3 3	Atmospheric Environment Service Downsview, Ont., Canada
10	H-F 18748	Frank Griffin John Hickey	3,4 4	The Eppley Laboratory Newport, RI 02840
<p>Manufacturer: Jet Propulsion Laboratory, 4800 Oak Grove Drive, Pasadena, CA 91109</p>				
11	MK VI 001	Roger Estey Clay Seaman Leo Zafonte Jerry Person	2,3 2,4 3 4	Jet Propulsion Laboratory Pasadena, CA 91109
12	ACR-VI 601	Richard Cram Jerome Nimira	3 3	National Oceanic and Atmospheric Administration Boulder, CO 80303
13	MK VI 67702†	Eric Laue	1,2,3,4	Jet Propulsion Laboratory Pasadena, CA 91109
<p>Manufacturer: Physikalisch-Meteorologisches Observatorium Davos, CH-7260, Davos Dorf, Switzerland</p>				
14	PM02*	Robert Brusa	3	PMOD Switzerland

*Compared at Davos in 1975

†Compared at Davos in 1980

Table 3-1. Inventory of Instruments and Experimenters (3 of 4)

Control Number	Model and S/N	Experimenter	Comparison Used In	Affiliation
Manufacturer: The Radiometrics Corp. (No longer in business)				
15	ACR V 501	G. Reilly	1	Boeing Aerospace Co.
		J. Zugel	1	Seattle, WA 98124
16	ACR 1104	Donald Grether	4	Lawrence Berkeley
		David Evans	4	Laboratory Berkeley, CA 94720
Manufacturer: Technical Measurements, Inc., Box 838, La Canada, CA 91011				
17	MK VI 67401*†	Martin Berdahl	2	Technical Measurements,
		J.M. Kendall, Sr.	1,2,3,4	Inc.
		R.E. Martin	1,3	La Canada, CA 91011
		John Stallkamp	2	
		William Holman	4	
18	MK VI 67502*†	E.C. Flowers	1,2,3,4	National Oceanic
		William Morrison	1,2,3,4	and Atmospheric Administration Boulder, CO 80303
19	MK VI 67603	Philip Thacher	1,2,3	Sandia Laboratories Albuquerque, NM 87187
20	MK VI 67706	Allen Hood	1,4	Southern California
		Dorr Kimball	1,2,3	Edison Co. Alhambra, CA 91802
21	MK VI 67707	C.R. Sreedharan	1	Utah State University
		Jeff Secrist	1	Logan, Utah 84322
22	MK VI 67811	Philip Thacher	2	Sandia Laboratories
		Richard Womelsduff	2	Albuquerque, NM 87187

*Compared at Davos in 1975

†Compared at Davos in 1980

Table 3-1. Inventory of Instruments and Experimenters (4 of 4)

Control Number	Model and S/N	Experimenter	Comparison Used In	Affiliation
23	MK VI 67812	C.G. Justus A.T. Sales	1 1,3	Georgia Institute of Technology Atlanta, GA 30332
24	MK VI 67814†	Daryl Myers Tom Stoffel Chester Wells	2,3 1,2 1,2,3,4	Solar Energy Research Institute Golden, CO 80401
25	MK VI 68017	Tom Stoffel Chester Wells	4 4	Solar Energy Research Institute Golden, CO 80401
26	MK VI 68018	Tom Stoffel Chester Wells	4 4	Solar Energy Research Institute Golden, CO 80401
27	MK VI 68020	Clifford L. Christopher	4	Martin Marietta Aerospace Denver, CO 80201

†Compared at Davos in 1980

The instruments in the intercomparisons had collimator angles as follows:

<u>Instrument</u>	<u>Slope Angle, deg</u>	<u>Opening Angle, deg</u>
H-F	0.8	2.5
ACR	0.8	2.5
PM02	0.74	2.4
TMI	0.8	2.5

For statistical analysis of the data leading to the best evaluation of each instrument relative to the group and any analysis of the group as a whole, one must consider systematic errors in the instruments and random errors in the instrument readings and in the values of solar irradiance. All known error sources are investigated and compensated, eliminated, or recognized as a

Figure 3-1. Collimator Geometry

characterization correction factor. A typical error budget is reported by Kendall and Berdahl* to yield a characterization correction factor of 0.999 for their particular instrument. The factor for commercial instruments usually lies between 0.99 and 1.01.

The accuracy of the electrical measurements of the cavity heater is directly dependent on the reliability of the instrument's calibration (in SI units) under the field conditions and the thermal environment prevalent at the time. Calibration to SI units within 0.1 percent is easily achieved.

Regardless of details of construction, each pyrliometer measures irradiance above a zero level established by the thermal equilibrium of the case and structure and the radiation exchange between the detecting cavity and the under side of the shutter. If this shutter surface is highly reflecting, moderate variations in the ambient temperature of the shutter have no appreciable effect on the radiometer zero and hence on the unshuttered radiometer reading because the solid angle of the shutter is so small.

*Kendall, J.M. and C.M. Berdahl, Applied Optics 9, 1082-1091 (1970)

SECTION 4

THE EXPERIMENT

The experiment consisted of simultaneous measurements of the direct solar irradiance using all available instruments individually mounted on equatorial solar trackers. Data taking was limited to clear sky conditions. The measurements are organized in 10-minute sequences of 21 readings at 30-second intervals. Enough time was allowed at the beginning and end of each run to check calibration and alignment.

In a typical experiment, the instruments were set up on the bench and energized. The radiometers are mounted on their trackers and aligned to the Sun. After 30 minutes warmup, the measuring sequence proceeded simultaneously for all instruments under the control of a program director who called the time at 30-second intervals. Each 10-minute run was preceded and followed by time for calibration. Twenty-one readings of direct solar irradiance were taken by each instrument and reported as W/m^2 . The MK VI 67502, operated by Ed Flowers, served as a pro tem reference, and the mean and standard deviation of his data set are reported immediately after each run. Each experimenter computed the mean and standard deviation of his data set, and comparisons with the pro tem reference provided an immediate, though rough, indication of each instrument's performance. Finally, the standard deviation of the run provided an estimate of the stability of the irradiances observed.

The deflection instruments can take data on the 30-second schedule, but the ACR instruments, in some cases, cannot because they operate on a 60-seconds-on-60-seconds-off cycle. Hence, the synchronization of these data with the rest is difficult.

Delays sometimes arose from instrument difficulties or from the appearance of patchy clouds. The test director called for holds as required. Any run which was interrupted for more than two readings was cancelled. Runs were extended when necessary to complete a 21-observation sequence.

The principal experimental conditions which influenced the data were unsteady sky conditions, wind, and drifts in the signal or calibration due to changes in the radiometer or control unit temperature. Variations in solar irradiance are particularly bothersome because instruments with different time constants respond differently from one another. Gusts of wind cool the radiometer entrance aperture and the cavity nonuniformly. Both of these affect the instruments variously because gusts do not reach all instruments simultaneously or with uniform intensity from one instrument to another.

Because of these factors, the observational variability disclosed by the data analysis must, therefore, be assigned to the source and the radiometer in unknown proportions.

SECTION 5

THE DATA

As mentioned previously, the data were grouped in 10-minute runs, each containing 21 observations. In a few cases, the number of observations per run was less because of sky conditions or instrument unreadiness. The readings express direct solar irradiance in watts/square meter. Observed values ran from about 700 to 1100 W/m².

The measurements made during each run were recorded on standard forms as they occurred. The mean and standard deviation (S.D.) of each run were computed immediately and compared with the results reported for No. 18, the reference instrument. Reproduced copies of all the raw data, edited by the experimenter if necessary, were circulated to all participants. The data presented in this report is reproduced from one of the copies of the original records.

In this published report, all of the data obtained during each intercomparison are presented in tables organized by date and run number. These data are presented in Appendix Tables 1-1 through 1-15, 2-1 through 2-22, 3-1 through 3-29, and 4-1 through 4-29 for the four intercomparisons respectively. Each sub-table presents the data from one run. The runs are identified, and the sub-tables are numbered in sequence. Each page contains two tabulations, the observed irradiances and the data normalized to the mean. Each row is identified with the time shown at the left, each column is identified with the instrument corresponding to the column number in the heading. Refer to Table 3-1 for instrument identification and details. For each observation, the mean irradiance and standard deviation of all instruments are shown in the last two columns. In the lower part of the tabulation, the values represent each irradiance reading divided by the row mean. At the bottom of each column are found means and S.D.'s of each radiometer averaged over the run.

Tables 5-1 through 5-4 summarize the relative performance of each instrument over each of the four intercomparisons respectively.

The tables in this section have been prepared with the minimum of statistical treatment; limited in fact to the computation of means and standard deviations and the rejection of values which appeared to have more than random error. A deviation greater than 3 σ served as a basis for arbitrary rejection. The number of rejections was extremely small.

Table 5-1. First Intercomparison - November 2, 3, 1978

Summary of Each Instrument Relative to Mean of All Instruments

Run No.	Instrument Identification Number													
	1	2	4	5	7	13	15	17	18	19	20	21	23	24
1	1.0027	0.9991	0.9945	1.0015	0.9992	0.9970	1.0048	0.9983	1.0029	1.0006	1.0013	1.0002	0.9975	1.0003
2	1.0019	1.0012	0.9954	1.0006	0.9981	0.9983	1.0046	0.9996	1.0044	0.9999	1.0008	0.9983	0.9979	0.9989
3	0.9991	0.9987	0.9996	1.0010	0.9988	0.9956	1.0047	1.0006	1.0012	1.0002	1.0020	1.0000	0.9987	0.9997
4	1.0016	1.0037	0.9966	0.9992	0.9969	0.9968	1.0048	0.9980	1.0028	1.0000	1.0013	1.0001	0.9985	0.9996
5	1.0022	1.0038	0.9946	1.0023	0.9999	0.9983		0.9997	1.0013	0.9943	1.0025	1.0008	0.9987	1.0007
6	1.0044	1.0002	0.9941	0.9989	0.9996	0.9989	1.0054	1.0000	1.0048	0.9908	1.0031	1.0006	0.9989	1.0005
7	1.0015	0.9982	0.9941	1.0006	0.9994	0.9973	1.0076	1.0004	1.0028	0.9953	1.0029	1.0001	0.9990	1.0006
8	1.0004	1.0009	0.9974	1.0006	0.9979		1.0057	0.9985	1.0005	0.9990	1.0007	0.9994	0.9990	1.0000
9	1.0003	1.0001		1.0009	0.9985	0.9944	1.0050	1.0000	1.0023	1.0004	1.0009	0.9987	0.9982	1.0002
10	1.0031	0.9994		1.0020	0.9998	0.9962	0.9936	0.9994	1.0025	1.0003	1.0030	1.0006	0.9994	1.0009
11	0.9988	1.0003		1.0013	0.9990	0.9953		0.9997	1.0027	1.0012	1.0018	1.0004	0.9984	1.0012
12	0.9988	0.9999		1.0017	0.9981	0.9953	1.0040	0.9998	1.0020	1.0013	1.0007	1.0002	0.9976	1.0007
13	1.0005	1.0007	0.9955	1.0009	0.9990	0.9959	1.0043	0.9990	1.0017	1.0005	1.0017	1.0005	0.9990	1.0007
14	1.0022	1.0035	0.9946	1.0007	0.9992	0.9943	1.0056	0.9978	1.0024	1.0010	1.0009	0.9999	0.9987	0.9995
15	0.9992	1.0028	0.9946	1.0011	0.9990	0.9972		0.9990	1.0033	1.0020	1.0021	0.9998	0.9994	1.0004
Mean	1.0011	1.0008	0.9955	1.0009	0.9988	0.9965	1.0042	0.9993	1.0025	0.9991	1.0017	1.0000	0.9986	1.0003
S.D.	0.0017	0.0018	0.0017	0.0009	0.0008	0.0014	0.0035	0.0009	0.0011	0.0031	0.0009	0.0007	0.0006	0.0006

Table 5-2. Second Intercomparison - May 2-3, 1979

Summary of Each Instrument Relative to Mean of All Instruments

Run No.	Instrument Identification Number											
	5	6	7	8	11	13	17	18	19	20	22	24
1	1.0017	0.9989	0.9982	1.0023	1.0053	1.0010	0.9965	1.0007	0.9993	0.9990		0.9975
2	0.9999	0.9987	0.9967	1.0023	1.0043	1.0013	0.9972	1.0007		1.0005		0.9986
3	1.0004	0.9992	0.9966	1.0030	1.0041	1.0006	0.9973	1.0006	0.9999	0.9996		0.9986
4	1.0013	0.9995	0.9973	1.0016		1.0014	0.9979	1.0020		1.0003		0.9986
5	1.0003	0.9998	0.9975	1.0034		1.0011	0.9977	1.0014		1.0004		0.9983
6	1.0004	0.9993	0.9971	1.0017	1.0040	1.0010	0.9974	1.0006	0.9994	1.0005		0.9987
7	0.9995	0.9991	0.9975	1.0022	1.0045	1.0010	0.9969	1.0014	0.9995	1.0003		0.9982
8	1.0006	0.9999	0.9977	1.0018		1.0014	0.9979	1.0028	1.0000	0.9992		0.9987
9	1.0002	0.9992	0.9974	1.0004	1.0035	1.0012	0.9972	1.0020	0.9995	1.0008		0.9985
10	1.0000	0.9990	0.9975	1.0037	1.0038	1.0009	0.9977	0.9999	0.9999			0.9976
11	0.9987	1.0000	0.9977	1.0011	1.0023	1.0011	0.9981	1.0013	0.9997	1.0014		0.9985
12	0.9995	0.9993	0.9975	1.0028	1.0013	1.0013	0.9970	1.0031	1.0001	0.9992	0.9999	0.9990
13	0.9996	0.9989	0.9971	1.0037	1.0021	1.0012	0.9969	1.0015	1.0001	1.0011	0.9993	0.9985
14	1.0005	0.9999	0.9976	1.0029	1.0001	1.0013	0.9978	1.0016	0.9997	0.9990	1.0007	0.9988
15	0.9996	0.9996	0.9968	1.0024	1.0038	1.0012	0.9967	1.0020	0.9997	0.9987	1.0005	0.9990
16	1.0001	1.0002	0.9963	1.0026	1.0037	1.0014	0.9973	1.0018	0.9993	0.9990	0.9998	0.9985
17	1.0000	0.9998	0.9961	1.0023	1.0044	1.0018	0.9971	1.0007	1.0002	0.9998	0.9995	0.9983
18	1.0003	0.9996	0.9963	1.0039	1.0017	1.0020	0.9975	1.0019	0.9994	0.9996	0.9995	0.9983
19	1.0000	0.9999	0.9973	1.0009	1.0052	1.0012	0.9967	1.0018	0.9990	0.9992	0.9999	0.9988
20	0.9994	0.9996	0.9962	1.0019	1.0055	1.0010	0.9961	1.0023	0.9998	1.0004	0.9996	0.9982
21	0.9994	1.0001	0.9970	1.0034	1.0026	1.0013	0.9968	1.0021	0.9993	1.0003	0.9996	0.9983
22	0.9988	0.9997	0.9967	1.0026	1.0060	1.0010	0.9976	1.0023	0.9986	0.9999	0.9986	0.9982
Mean	1.0000	0.9995	0.9971	1.0024	1.0036	1.0012	0.9972	1.0016	0.9996	0.9999	0.9997	0.9984
S.D.	0.0007	0.0004	0.0006	0.0009	0.0015	0.0003	0.0005	0.0008	0.0004	0.0008	0.0006	0.0004

Table 5-3. Third Intercomparison - November 5, 8, 9, 1979
Summary of Each Instrument Relative to Mean of All Instruments

Run No.	Instrument Identification Number																	
	1	3	5	7	8	9	10	11	12	13	14	17	18	19	20	23	24	
1	1.0033	1.0003		0.9970	1.0019	0.9989	1.0020	1.0030		1.0007	1.0005	1.0005	0.9986	0.9980	0.9972		0.9982	
2	0.9988	0.9979		0.9964	1.0009	0.9991	1.0027	0.9994	1.0060	1.0023	1.0012	1.0015	0.9998	0.9999	1.0008		0.9984	
3	0.9983	1.0002		0.9967	0.9993	0.9986	1.0042	1.0021	1.0010	1.0020	1.0002	1.0023	0.9974	0.9993	1.0007		0.9986	
4	0.9987	0.9896		0.9973	1.0006	0.9996	1.0030	1.0009	1.0101	1.0024	1.0006	1.0006	1.0023	1.0004	1.0000		0.9992	
5	0.9943	1.0003		0.9964	1.0013	0.9978	1.0032	1.0048	1.0092	1.0015	1.0016	0.9999	1.0004	0.9997	0.9959	0.9974	0.9963	
6	0.9962	0.9910		0.9967	1.0006	0.9989	1.0034	1.0021	1.0056	1.0031	1.0008	1.0052	0.9998	1.0001	1.0025	0.9970	0.9985	
7	0.9997	0.9905		0.9969	1.0005	0.9991	1.0034	1.0050	1.0090	1.0025	1.0001	0.9986	1.0002	0.9998	1.0001	0.9978	0.9987	
8	0.9967	0.9847		0.9974	1.0013	0.9998	1.0046	1.0008	1.0054	1.0045	1.0012	1.0030	1.0016	1.0008	1.0007	0.9985	0.9995	
9	1.0008	0.9850		0.9970	1.0012	0.9993	1.0039	1.0015	1.0019	1.0025	1.0017	1.0040	1.0004	1.0009	1.0034	0.9987	0.9994	
10	0.9953	0.9844		0.9978	1.0024	0.9992	1.0041	1.0024	1.0050	1.0030	1.0027	1.0035	1.0021	1.0013	1.0024	0.9980	1.0003	
11	1.0018	0.9895		0.9967	1.0011	0.9986	1.0041	1.0015	1.0040	1.0029	1.0012	1.0022	0.9995	0.9997	1.0010	0.9970	0.9992	
12	0.9978	0.9874		0.9967	1.0007	0.9986	1.0033	1.0022	1.0091	1.0026	1.0008	1.0025	0.9992	1.0003	1.0015	0.9974	0.9993	
13	1.0025	0.9906		0.9971	0.9997	0.9983	1.0027	1.0036	1.0068	1.0026	1.0015	1.0028	0.9993	1.0003	0.9998	0.9978	0.9997	
14		0.9932		0.9967	1.0028			1.0041	1.0070	1.0020	0.9993	1.0027	1.0011	0.9991	1.0010	0.9980	0.9984	
15		0.9956		0.9974	0.9987			1.0067	1.0008	1.0022	1.0005	1.0032	0.9978	1.0004	0.9995	0.9985	0.9989	
16		0.9808		0.9974	1.0019			1.0025	1.0066	1.0056	1.0009	1.0035	1.0006	1.0005	1.0018	0.9989	0.9992	
17		0.9812		0.9978	1.0025			1.0059	1.0059	1.0029	1.0011	1.0032	1.0010	1.0009	1.0002	0.9983	0.9991	
18	0.9981	0.9789		0.9988	1.0023	1.0004		1.0069	1.0071	1.0031	1.0009	1.0022	1.0011	1.0006	1.0004	0.9997	0.9986	
19	0.9989	1.0015		0.9960	1.0013	0.9981		1.0032	1.0079	1.0009	0.9995	1.0008	0.9996	0.9986	0.9991	0.9969	0.9976	
20	0.9982	0.9956	1.0008	0.9973	1.0013	0.9986		1.0062	1.0068	1.0014	1.0006	1.0014	0.9996	0.9996	0.9987	0.9975	0.9981	
21	0.9989	0.9952	1.0012	0.9966	1.0025	0.9988		1.0029	1.0088	1.0005	0.9999	1.0005	0.9993	0.9988	1.0009	0.9973	0.9979	
22	0.9981	0.9956	1.0011	0.9968	1.0008	0.9986		1.0044	1.0089	1.0014	1.0005	1.0005	0.9992	0.9997	0.9994	0.9967	0.9984	
23	0.9981	0.9982	1.0004	0.9965	0.9999	0.9982		1.0043	1.0112	1.0020	0.9997	1.0006	0.9985	0.9990	0.9995	0.9961	0.9978	
24	0.9984	0.9961	1.0005	0.9970	1.0006	0.9985		1.0039	1.0098	1.0014	1.0000	1.0006	0.9991	0.9996	0.9988	0.9972	0.9983	
25	0.9996		1.0025	0.9973	1.0019	0.9995					1.0002		1.0005	1.0004	1.0015	0.9975	0.9993	
26	0.9969		1.0023	0.9979	1.0020	1.0000					1.0015		1.0003		1.0012	0.9977	1.0002	
27	0.9984		1.0020	0.9982	1.0021	0.9993					1.0014		1.0012			0.9978	0.9996	
28	0.9994		1.0025	0.9978	1.0013	1.0004					1.0013		0.9999			0.9976	0.9998	
29	1.0037		0.9998	0.9975	1.0015	0.9992					1.0010		1.0000			0.9980	0.9993	
Mean	0.9988	0.9918	1.0013	0.9971	1.0012	0.9990	1.0034	1.0033	1.0067	1.0023	1.0008	1.0019	1.0000	0.9999	1.0003	0.9977	0.9989	
S.D.	0.0023	0.0067	0.0010	0.0006	0.0010	0.0007	0.0007	0.0020	0.0028	0.0011	0.0007	0.0015	0.0012	0.0008	0.0016	0.0008	0.0007	

Table 5-4. Fourth Intercomparison - November 17-19, 1980
Summary of Each Instrument Relative to Mean of All Instruments

Run No.	Instrument Identification Number														
	3	5	7	8	10	11	13	16	17	18	20	24	25	26	27
1		1.0000	0.9930	1.0013	1.0003	1.0019	1.0018	1.0049	0.9998	0.9990	1.0007	0.9979		1.0016	1.0000
2	0.9991	1.0003	0.9961	1.0010	1.0027	1.0027	1.0017	1.0111	0.9988	0.9987	0.9988	0.9975		1.0002	0.9967
3	0.9997	1.0000	0.9963	1.0022	1.0019	1.0015	1.0007	1.0119	0.9984	0.9981	0.9974	0.9975		1.0017	0.9982
4	1.0008	0.9998	0.9960	1.0019	1.0020	1.0008	1.0016	1.0107	0.9989	0.9977	0.9991	0.9975		1.0004	0.9984
7	1.0028	1.0001	0.9966	1.0000	1.0023	1.0013	1.0013	1.0053	0.9980	0.9996	1.0002	0.9975	0.9976	1.0008	0.9991
8	1.0012	1.0007	0.9965	1.0025	1.0022	0.9997	1.0006	1.0089	0.9971	0.9992	0.9982	0.9974	1.0002	1.0005	0.9991
9	1.0041	1.0002	0.9962	1.0013	1.0024	1.0018	1.0007	1.0066	0.9975	1.0008	0.9987	0.9971	0.9978	0.9995	0.9988
10	1.0018	0.9998	0.9959	1.0008	1.0023	1.0007	1.0007	1.0061	0.9992	0.9993	1.0004	0.9973	0.9985	1.0009	0.9994
11	1.0036	1.0000	0.9960	1.0008	1.0027	1.0022	1.0004	1.0041	0.9985	0.9992	0.9975	0.9976	0.9987	1.0016	0.9994
12	1.0034	0.9996	0.9961	1.0008	1.0021	1.0004	1.0006	1.0103	0.9980	0.9985	0.9977	0.9975	0.9995	1.0008	0.9995
13	1.0006	1.0004	0.9957	1.0027	1.0021	1.0023	1.0000	1.0094	0.9983	0.9984	0.9989	0.9976	0.9988	1.0008	0.9990
14	1.0006	1.0000	0.9966	1.0001	1.0027	0.9994	1.0019	1.0040	0.9991	0.9992	1.0006	0.9983	0.9992	1.0013	0.9992
15	1.0003	1.0005	0.9971		1.0033	0.9982	1.0012	1.0066	0.9999	0.9979	0.9985	0.9990	0.9996	1.0018	0.9993
16		1.0003	0.9962	0.9999	1.0031	1.0048	1.0002	1.0067	0.9980	0.9993	0.9985	0.9978	0.9989	1.0007	0.9988
17		0.9999	0.9958	1.0022	1.0034	1.0034	1.0006	1.0027	0.9988	0.9977	0.9986	0.9984	0.9993	1.0017	0.9989
18		0.9993	0.9962	1.0010	1.0023	1.0043	1.0008	1.0041	0.9990	0.9975	0.9992	0.9974	0.9998	1.0016	0.9994
19		0.9994	0.9957	0.9989	1.0021	1.0036	1.0009	1.0022	0.9983	1.0007	0.9999	0.9991	0.9980	1.0025	1.0000
20	1.0023	1.0005	0.9964	1.0006	0.9952	1.0017	1.0009	1.0092	0.9967	0.9990	0.9993	1.0002	0.9990	1.0007	0.9987
21	1.0018	0.9999	0.9958	0.9995	1.0042	1.0020	1.0005	1.0077	1.0002	0.9988	0.9988	0.9968	0.9989	1.0002	0.9987
22	1.0036	1.0001	0.9966	0.9998	1.0017	1.0010	1.0004	1.0106	0.9983	0.9994	0.9989	0.9973	0.9983	1.0001	0.9989
23	1.0034	1.0003	0.9965	1.0000	1.0034	0.9978	1.0007	1.0099	0.9983	0.9992	0.9989	0.9976	0.9993	1.0008	0.9986
24	1.0006	0.9997	0.9956	0.9997	1.0016	1.0017	1.0001	1.0092	0.9992	1.0007	1.0006	0.9969	0.9989	1.0010	0.9990
25	1.0040	0.9996	0.9958	0.9993	1.0029	1.0017	1.0004	1.0089	0.9982	0.9995	0.9981	0.9978	0.9985	1.0005	0.9990
26	1.0018	0.9999	0.9960	1.0001	1.0034	1.0002	1.0006	1.0092	0.9990	0.9981	1.0002	0.9977	0.9982	1.0019	0.9986
27	1.0009	0.9998	0.9965	0.9999	1.0011	0.9993	1.0004	1.0104	0.9992	0.9985	1.0002	0.9974	0.9988	1.0030	0.9996
28	0.9984	0.9996	0.9962	1.0011	1.0016	1.0039	1.0012	1.0084	0.9978	0.9989	0.9979	0.9979	0.9998	1.0019	0.9996
29	1.0047		0.9950	1.0048	1.0015	1.0035	0.9998	1.0102	0.9957	0.9982	0.9969	0.9977	0.9985	1.0001	0.9983
30	0.9978	0.9998	0.9960	1.0011	1.0015	1.0021	1.0007	1.0100	0.9983	0.9996	1.0008	0.9970	0.9989	1.0009	0.9999
31	0.9993	0.9998	0.9961	1.0001	1.0016	1.0015	1.0008	1.0109	0.9993	0.9987	1.0001	0.9979	0.9988	1.0010	0.9994
Mean	1.0015	1.0000	0.9960	1.0008	1.0022	1.0016	1.0008	1.0079	0.9985	0.9989	0.9991	0.9977	0.9989	1.0010	0.9990
S.D.	0.0019	0.0003	0.0007	0.0012	0.0010	0.0017	0.0005	0.0028	0.0010	0.0009	0.0011	0.0007	0.0006	0.0008	0.0006

SECTION 6

ANALYSIS

The four intercomparisons of pyrheliometers with the Sun as the source have produced a wealth of data in an amount never before assembled in experiments of this kind. Because the solar irradiance was constantly changing, only simultaneous measurements by all available instruments had any meaning. The data bank contained 1771 solar irradiance determinations. The mean and standard deviation of each determination were computed and serve to normalize the related individual readings. The results were aggregated into the tables presented in Section 5. It must be emphasized that the summaries, Tables 5-1 to 5-4, represent the ratio by which each instrument's result relates to the peer group average of a string of simultaneous solar measurements. These ratios averaged over the entire intercomparison provide each instrument with an average rank value relative to the peer group. These ratios, extracted from Tables 5-1 to 5-4, are assembled in Table 6-1 and provide the basis for the following discussion in terms of the entire data set and various subsets characterized by variations in insolation and variations among the instruments.

The quality of the calibration is measured by the mean performance of all the instruments treated as a peer group. Similar treatment with respect to various sub-groups is possible. The principal and final results shown in Table 6-1 indicate the ratio by which each instrument may be expected to read high or low with respect to the peer group mean computed for each intercomparison.

6.1 DISPERSION OF DATA

The dispersion in the data is caused by variations in solar intensity, variations in observer technique, and instrument fluctuations. The solar contribution can be estimated from examples of noisy and quiet sky conditions using data from an observer and instrument deemed to be superior. The effect of an unusually quiet sky is shown by the plotted data and regression line in the upper part of Figure 6-1. The combination of slightly noisy sky conditions and rapidly changing irradiance is shown by the plotted points and regression line in the lower part of the figure.

The quiet sky was observed at noon and was cloud-free. The spread of the data is limited by the resolution of the readout. For this run, the observed irradiance was constant, and the standard deviation of the 21-measurement set was 0.06 percent. This is believed to represent the upper limit of variation due to instrument and operator causes. The second curve represents conditions in the late afternoon. The solar irradiance was dropping 3.7 W/m^2 per minute, and typical afternoon clouds made the data conspicuously ragged. Another example is Figure 6-2, which shows the effect of thin cirrus clouds. The sky noise in the upper curve has a standard deviation of 2.38 and is acceptable. Six minutes later, the cirrus had thickened and become intolerable as shown in the lower graph, which is plotted to a much more compressed scale. The standard deviation for this run had grown to 60.6!

Table 6-1. Results of Each Intercomparison Showing Ratio of Each Instrument to the Group Mean

Control Number	Inter- comparison I		Inter- comparison II		Inter- comparison III		Inter- comparison IV	
	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.
1	1.0011	0.0017			0.9988	0.0023		
2	1.0008	0.0018						
3					0.9918	0.0067	1.0015	0.0019
4	0.9955	0.0017						
5	1.0009	0.0009	1.0000	0.0007	1.0013	0.0010	1.0000	0.0003
6			0.9995	0.0004				
7	0.9988	0.0008	0.9971	0.0006	0.9971	0.0006	0.9960	0.0007
8			1.0024	0.0009	1.0012	0.0010	1.0008	0.0012
9					0.9990	0.0007		
10					1.0034	0.0007	1.0022	0.0010
11			1.0036	0.0015	1.0033	0.0020	1.0016	0.0017
12					1.0067	0.0028		
13	0.9965	0.0014	1.0012	0.0003	1.0023	0.0011	1.0008	0.0005
14					1.0008	0.0007		
15	1.0042	0.0035						
16							1.0079	0.0028
17	0.9993	0.0009	0.9972	0.0005	1.0019	0.0015	0.9985	0.0010
18	1.0025	0.0011	1.0016	0.0008	1.0000	0.0012	0.9989	0.0009
19	0.9991	0.0031	0.9996	0.0004	0.9999	0.0008		
20	1.0017	0.0009	0.9999	0.0008	1.0003	0.0016	0.9991	0.0011
21	1.0000	0.0007						
22			0.9997	0.0006				
23	0.9986	0.0006			0.9977	0.0008		
24	1.0003	0.0006	0.9984	0.0004	0.9989	0.0007	0.9977	0.0007
25							0.9989	0.0006
26							1.0010	0.0008
27							0.9990	0.0006

Figure 6-1. Examples of Sky Noise

Figure 6-2. Effect of Thin Cirrus Clouds

Tables 5-1 to 5-4 summarize each of the comparisons and demonstrate the dispersion between instruments as measured by the spread of final rank values assigned to each instrument averaged over the results of each comparison. The results are as follows.

<u>Intercomparison</u>	<u>Standard Deviation</u>
1st	0.0023
2nd	0.0020
3rd	0.0032
4th	0.0027

6.2 LONG TERM DRIFT

Six instruments were used in all four comparisons and provided data to investigate long term drift. Using values drawn from Table 6-1, regression lines have been formed from rank values versus elapsed time between intercomparisons. The slopes range from -0.180 to +0.156 percentage points per year with a mean value of -0.04 percent per year. This is a computer result and is correctly interpreted as "no measurable long term drift."

6.3 SYSTEMATIC VARIATIONS

Although the pyrhelimeters all measure solar irradiance in W/m^2 at the Earth surface, there is no accepted standard source for calibration, and there is no single prototype instrument whose calibration is accepted world-wide or even country-wide. The dilemma is solved by designing each instrument to facilitate the substitution of highly precise electrical measurements for the radiation measurements for which no direct precision standards exist. Consequently, each type of instrument and each individual instrument has a scaling factor, C_f , which relates the two kinds of measured power by the equation:

$$C_f = \frac{\text{radiant power}}{\text{electrical power}}$$

The scaling factor, C_f , is composed of two components and corresponds to:

$$C_f = \frac{1}{A} \cdot C$$

where:

A = Aperture area

C = Correction factor determined by characterization

Each instrument designer considers all possible sources of systematic error and reduces these to negligible amounts, such that the C for the completely assembled and adjusted instrument comes as close to unity as possible. During manufacture of an instrument, the important physical characteristics are closely controlled and measured. Using these techniques, a value of C_f is determined and supplied with the instrument by the vendor. Furthermore, each manufacturer maintains a consistent product by maintaining one or more cavity pyr heliometers as house standards for quality tests of newly manufactured instruments.

In view of the manner in which the various instruments are calibrated, any difference between manufacturers is of interest. Using numbers from Table 6-1 to form rank values, the following results were obtained.

	<u>Comparison III</u>	<u>Comparison IV</u>
II-F	1.0004 ± 0.0024	1.0001 ± 0.0024
MK VI	1.0005 ± 0.0019	1.0003 ± 0.0029

Notice that the calibration of the two groups of instruments agree within 1 or 2 hundredths of a percent.

Two possible contributions to systematic error are particularly important. The first relates to interim storage. Precision standard instruments should be kept in a closed cabinet which is dust free and controlled at normal values of temperature and humidity. This avoids any drift in the calibration factor, C_f .

The second concern relates to the accuracy of the panel meter display. Each instrument compares radiant power with electrical power, the latter being expressed as E^2/R . This means that each instrument must be adequately calibrated in voltage and resistance (and amplifier gain) at the temperature which the control instrument reaches in the field.

SECTION 7

APPLICATIONS

This report serves two purposes: to characterize in detail and in general the quality of precision cavity pyrheliometers and to suggest procedures by which the quality of a particular instrument can be appraised.

If a precision cavity pyrheliometer is carefully maintained to preserve its original calibration, one can expect its tolerances to be similar to those of the instruments described in this report. Specifically, the intercomparisons have demonstrated that this type of instrument can be relied on to represent the World Radiation Reference Scale with an uncertainty no greater than 0.25 percent.

Traceability of calibration of a user's pyrheliometer is accomplished by direct comparison with any one of the following:

- (1) A reference instrument which has participated in an intercomparison at Davos, Switzerland.
- (2) A reference instrument which has participated in one of the New River intercomparisons described in this report.
- (3) An intercomparison with TMI/Kendall 67502, control number 18. This instrument has been intercompared at Davos and at New River and is the primary reference standard of the National Oceanic and Atmospheric Administration (NOAA) Solar Radiation Facility at Boulder, CO.

The NOAA reference instrument, control number 18, holds a unique position in the solar energy community because it is the official instrument controlling the national network associated with the weather service. As shown in Table 6-1, the rank of this instrument relative to the mean of all is 1.0025, 1.0016, 1.0000, and 0.9989; the average is 1.0008.

A user performing an intercomparison of his instrument with one of the standards just mentioned should approximate the procedure described in Section 4, giving particular attention to the need for a quiet sky, precise tracking, and the calibration of the digital panel meter under the field conditions prevailing at the time. The rank of the reference instrument used relative to the peer group mean or to the NOAA standard can be obtained from Table 6-1.

APPENDIX

INTERCOMPARISON RAW DATA

First Intercomparison - November 2-3, 1978

TABLE 1- 1

FIRST INTERCOMPARISON - NOVEMBER 2, 1978
 RUN 1: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	2	4	5	7	13	15	17	18	19	20	21	23	24
1	10:55:00	915.0	911.9	906.2	914.1	912.9	908.0	920.2	912.0	916.0	914.5	915.0	914.0	911.0	914.0
2	10:55:30	913.1	909.0	904.6	910.6	910.4	918.0	916.9	909.0	914.0	910.5	911.0	911.0	909.0	911.0
3	10:56:00	915.0	911.9	907.1	914.1	912.1	918.0	919.2	911.0	916.0	914.5	913.0	913.0	911.0	913.0
4	10:56:30	914.0	912.3	907.1	914.1	911.2	917.0	917.5	911.0	915.0	913.5	914.0	913.0	910.0	913.0
5	10:57:00	914.0	911.7	907.9	914.1	912.1	913.0	916.5	912.0	915.0	912.5	915.0	913.0	911.0	913.0
6	10:57:30	913.1	909.7	906.2	912.3	911.2	910.0	916.9	909.0	914.0	911.5	913.0	911.0	909.0	912.0
7	10:58:00	917.0	913.8	909.5	915.8	913.8	912.0	918.2	913.0	918.0	916.5	916.0	915.0	913.0	915.0
8	10:58:30	919.9	907.7	913.6	920.1	918.0	912.0	923.4	916.0	920.0	915.5	920.0	918.0	916.0	918.0
9	10:59:00	920.9	919.2	912.7	920.1	917.2	912.0	922.5	917.0	922.0	920.5	920.0	919.0	916.0	919.0
10	10:59:30	915.0	912.4	905.4	912.3	909.5	913.5	913.6	910.0	914.0	913.0	913.0	911.0	910.0	912.0
11	11:00:00	915.0	913.9	908.7	914.9	912.9	911.5	917.9	912.0	916.0	914.5	916.0	914.0	911.0	913.0
12	11:00:30	919.0	916.3	912.7	918.4	916.3	914.0	920.2	915.0	919.0	918.5	918.0	917.0	914.0	917.0
13	11:01:00	922.9	919.1	916.0	921.9	918.9	917.0	924.8	918.0	922.0	919.5	920.0	919.0	917.0	920.0
14	11:01:30	924.9	922.1	917.6	923.6	922.3	917.0	926.7	920.0	925.0	922.5	922.0	922.0	920.0	922.0
15	11:02:00	925.8	923.2	919.2	925.4	923.1	911.0	927.4	921.0	926.0	923.5	923.0	923.0	921.0	923.0
16	11:02:30	925.8	924.1	919.2	926.2	923.9	913.0	928.4	923.0	926.0	925.5	925.0	925.0	921.0	924.0
17	11:03:00	927.8	924.1	920.9	927.1	923.9	916.0	930.3	923.0	927.0	926.5	926.0	925.0	922.0	925.0
18	11:03:30	925.8	922.4	916.8	922.8	920.6	918.0	925.7	921.0	925.0	923.0	923.0	922.0	920.0	923.0
19	11:04:00	926.8	923.2	920.9	926.2	923.9	921.0	929.7	923.0	926.0	924.5	926.0	924.0	921.0	924.0
20	11:04:30	929.8	926.6	920.1	927.1	924.8	922.0	928.0	925.0	930.0	927.5	928.0	927.0	924.0	927.0
21	11:05:00	924.9	921.9	916.8	922.8	920.6	923.0	923.1	920.0	924.0	920.0	922.0	922.0	919.0	922.0
1		1.0020	.9986	.9924	1.0010	.9997	.9943	1.0076	.9987	1.0031	1.0014	1.0020	1.0009	.9976	1.0009
2		1.0019	.9975	.9927	.9992	.9990	1.0074	1.0061	.9975	1.0030	.9991	.9997	.9997	.9975	.9997
3		1.0017	.9983	.9930	1.0007	.9985	1.0049	1.0062	.9973	1.0027	1.0011	.9995	.9995	.9973	.9995
4		1.0011	.9952	.9934	1.0011	.9980	1.0043	1.0049	.9978	1.0021	1.0005	1.0010	.9999	.9967	.9999
5		1.0012	.9987	.9945	1.0013	.9991	1.0001	1.0040	.9990	1.0023	.9995	1.0023	1.0001	.9979	1.0001
6		1.0019	.9982	.9944	1.0010	.9998	.9985	1.0061	.9974	1.0029	1.0002	1.0018	.9996	.9974	1.0007
7		1.0024	.9950	.9942	1.0011	.9990	.9970	1.0038	.9981	1.0035	1.0019	1.0014	1.0003	.9981	1.0003
8		1.0032	.9858	.9962	1.0034	1.0011	.9945	1.0070	.9989	1.0033	.9983	1.0033	1.0011	.9989	1.0011
9		1.0027	1.0008	.9938	1.0018	.9987	.9930	1.0044	.9984	1.0039	1.0022	1.0017	1.0006	.9973	1.0006
10		1.0036	1.0007	.9931	1.0006	.9975	1.0019	1.0020	.9981	1.0025	1.0014	1.0014	.9992	.9981	1.0003
11		1.0015	1.0003	.9945	1.0014	.9992	.9976	1.0046	.9982	1.0026	1.0009	1.0026	1.0004	.9971	.9993
12		1.0023	.9994	.9956	1.0017	.9994	.9969	1.0037	.9980	1.0024	1.0018	1.0013	1.0002	.9969	1.0002
13		1.0035	.9993	.9959	1.0024	.9991	.9970	1.0055	.9981	1.0025	.9998	1.0003	.9992	.9970	1.0003
14		1.0031	1.0001	.9953	1.0018	1.0003	.9946	1.0051	.9979	1.0033	1.0006	1.0000	1.0000	.9979	1.0000
15		1.0036	1.0007	.9964	1.0031	1.0006	.9875	1.0052	.9983	1.0037	1.0010	1.0005	1.0005	.9983	1.0005
16		1.0025	1.0006	.9953	1.0028	1.0003	.9885	1.0052	.9994	1.0026	1.0021	1.0015	1.0015	.9972	1.0005
17		1.0036	.9996	.9961	1.0028	.9994	.9908	1.0063	.9984	1.0027	1.0000	1.0017	1.0006	.9973	1.0006
18		1.0041	1.0003	.9943	1.0008	.9984	.9956	1.0040	.9988	1.0032	1.0010	1.0010	.9999	.9977	1.0010
19		1.0028	.9988	.9963	1.0021	.9996	.9964	1.0058	.9986	1.0018	1.0002	1.0018	.9997	.9964	.9997
20		1.0039	1.0004	.9934	1.0010	.9985	.9955	1.0020	.9987	1.0041	1.0014	1.0019	1.0009	.9976	1.0009
21		1.0036	1.0003	.9948	1.0013	.9989	1.0015	1.0017	.9983	1.0026	.9983	1.0005	1.0005	.9972	1.0005
MEAN		1.0027	.9991	.9945	1.0015	.9992	.9970	1.0048	.9983	1.0029	1.0006	1.0013	1.0002	.9975	1.0003
S.D.		.0009	.0023	.0013	.0010	.0009	.0051	.0016	.0005	.0006	.0011	.0010	.0006	.0006	.0005

MEAN	S.D.
913.20	3.399
911.29	3.385
913.49	3.058
913.05	2.718
912.92	2.090
911.35	2.577
914.75	2.425
917.02	4.005
918.44	3.153
911.77	2.445
913.66	2.372
916.81	2.213
919.72	2.464
921.98	2.699
922.55	3.977
923.58	3.790
924.47	3.455
922.08	2.653
924.30	2.505
926.20	2.795
921.58	2.124

TABLE 1- 2

FIRST INTERCOMPARISON - NOVEMBER 2, 1978
 RUN 2: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	2	4	5	7	13	15	17	18	19	20	21	23	24
1	12:16:00	921.1	921.9	918.9	922.3	919.0	913.0	929.2	916.0	926.0	918.4	922.0	921.0	920.0	920.0
2	12:16:30	930.9	931.5	927.9	932.7	929.9	927.0	938.3	931.0	936.0	930.3	932.0	931.0	929.0	930.0
3	12:17:00	938.8	939.2	935.2	940.5	939.2	935.0	946.1	939.0	944.0	938.7	940.0	939.0	938.0	939.0
4	12:17:30	939.8	940.4	935.2	941.4	938.4	936.0	945.4	940.0	943.0	940.8	941.0	939.0	938.0	939.0
5	12:18:00	942.7	943.6	937.6	942.2	941.8	939.0	948.4	944.0	946.0	941.7	945.0	942.0	941.0	942.0
6	12:18:30	945.7	943.6	939.3	944.0	942.3	940.0	950.0	944.0	947.0	941.7	946.0	944.0	942.0	943.0
7	12:19:00	945.7	943.6	938.4	944.9	941.8	940.0	950.6	944.0	948.0	942.4	945.0	943.0	942.0	943.0
8	12:19:30	945.7	944.6	938.4	944.0	940.9	939.0	949.3	943.0	949.0	943.7	944.0	942.0	942.0	943.0
9	12:20:00	944.7	945.2	940.1	945.7	942.6	940.0	951.9	944.0	949.0	944.3	945.0	943.0	942.0	943.0
10	12:20:30	938.8	939.7	932.7	937.9	935.8	940.0	943.2	938.0	942.0	937.5	938.0	936.0	936.0	937.0
11	12:21:00	924.1	924.6	914.8	920.5	917.2	939.0	923.2	922.0	926.0	921.9	922.0	919.0	920.0	921.0
12	12:21:30	925.0	921.7	918.9	923.1	920.6	939.5	928.2	922.0	925.0	921.8	923.0	920.0	919.0	920.0
13	12:22:00	929.9	930.0	926.2	931.0	928.2	933.0	933.1	930.0	933.0	930.3	931.0	927.0	927.0	928.0
14	12:22:30	933.9	932.3	926.2	931.0	929.0	917.0	934.4	931.0	935.0	931.6	932.0	929.0	929.0	930.0
15	12:23:00	929.0	927.3	922.2	925.7	924.0	917.0	928.5	926.0	930.0	926.3	926.0	924.0	924.0	925.0
16	12:23:30	929.0	928.0	921.4	925.7	923.1	925.0	927.5	926.0	930.0	927.6	927.0	924.0	924.0	925.0
17	12:24:00	927.0	924.5	920.6	924.9	922.3	927.0	927.5	922.0	927.0	923.5	924.0	920.0	921.0	922.0
18	12:24:30	929.0	927.1	921.4	925.7	923.1	921.0	926.9	924.0	930.0	925.9	925.0	923.0	923.0	924.0
19	12:25:00	929.0	926.9	920.6	924.9	923.1	922.0	925.9	924.0	930.0	925.6	924.0	922.0	923.0	924.0
20	12:25:30	927.0	926.2	918.9	924.0	922.3	919.0	923.9	924.0	928.0	924.9	924.0	922.0	922.0	923.0
21	12:26:00	924.1	924.4	917.3	923.1	920.6	920.0	922.6	922.0	926.0	922.7	922.0	920.0	920.0	921.0
1		1.0005	1.0014	.9981	1.0018	.9982	.9917	1.0093	.9950	1.0058	.9976	1.0015	1.0004	.9993	.9993
2		.9997	1.0013	.9964	1.0016	.9985	.9954	1.0076	.9997	1.0051	.9990	1.0008	.9997	.9976	.9987
3		.9994	.9998	.9955	1.0012	.9998	.9953	1.0071	.9996	1.0049	.9992	1.0006	.9996	.9985	.9996
4		1.0000	1.0016	.9951	1.0017	.9985	.9959	1.0059	1.0002	1.0034	1.0010	1.0013	.9991	.9981	.9991
5		1.0001	1.0010	.9947	.9995	.9991	.9961	1.0061	1.0014	1.0036	.9990	1.0025	.9993	.9983	.9993
6		1.0021	.9958	.9952	1.0003	.9985	.9960	1.0066	1.0003	1.0034	.9978	1.0024	1.0003	.9981	.9992
7		1.0021	.9958	.9944	1.0012	.9979	.9960	1.0073	1.0003	1.0045	.9986	1.0013	.9992	.9981	.9992
8		1.0024	1.0012	.9947	1.0006	.9973	.9953	1.0062	.9995	1.0059	1.0002	1.0006	.9984	.9984	.9995
9		1.0004	1.0009	.9955	1.0015	.9982	.9954	1.0080	.9997	1.0050	1.0000	1.0007	.9986	.9975	.9986
10		1.0008	1.0018	.9944	.9998	.9976	1.0021	1.0055	.9999	1.0042	.9994	.9999	.9978	.9978	.9989
11		1.0017	1.0023	.9917	.9978	.9942	1.0179	1.0007	.9994	1.0038	.9993	.9994	.9962	.9973	.9984
12		1.0017	.9981	.9951	.9997	.9969	1.0174	1.0052	.9985	1.0017	.9982	.9995	.9963	.9952	.9963
13		1.0001	1.0002	.9961	1.0012	.9982	1.0034	1.0035	1.0002	1.0034	1.0005	1.0012	.9969	.9969	.9980
14		1.0041	1.0024	.9958	1.0010	.9988	.9859	1.0046	1.0010	1.0053	1.0016	1.0020	.9988	.9988	.9999
15		1.0039	1.0021	.9966	1.0004	.9985	.9910	1.0034	1.0007	1.0050	1.0010	1.0007	.9985	.9985	.9996
16		1.0033	1.0022	.9950	.9997	.9969	.9990	1.0017	1.0001	1.0044	1.0018	1.0011	.9979	.9979	.9990
17		1.0035	1.0008	.9965	1.0012	.9984	1.0035	1.0040	.9980	1.0035	.9997	1.0002	.9959	.9970	.9980
18		1.0044	1.0023	.9961	1.0008	.9980	.9958	1.0021	.9990	1.0055	1.0010	1.0001	.9979	.9979	.9990
19		1.0047	1.0024	.9956	1.0003	.9983	.9971	1.0014	.9993	1.0058	1.0010	.9993	.9971	.9982	.9993
20		1.0038	1.0029	.9950	1.0005	.9987	.9951	1.0004	1.0005	1.0049	1.0015	1.0005	.9984	.9984	.9994
21		1.0024	1.0028	.9951	1.0014	.9987	.9980	1.0008	1.0002	1.0045	1.0009	1.0002	.9980	.9980	.9991
MEAN		1.0019	1.0012	.9954	1.0006	.9981	.9983	1.0046	.9996	1.0044	.9999	1.0008	.9983	.9979	.9989
S.D.		.0017	.0012	.0012	.0009	.0011	.0075	.0027	.0013	.0010	.0013	.0009	.0013	.0008	.0008

A-4

MEAN	S.D.
920.63	3.921
931.25	2.962
939.41	2.882
939.81	2.618
942.65	2.723
943.75	2.812
943.75	3.085
943.47	3.138
944.32	3.177
938.05	2.663
922.52	5.575
923.42	5.302
929.84	2.299
930.10	4.466
925.35	3.231
925.94	2.396
923.80	2.599
924.93	2.673
924.64	2.662
923.52	2.632
921.84	2.233

TABLE 1- 3

FIRST INTERCOMPARISON - NOVEMBER 2, 1978
 FUN 3: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	2	4	5	7	13	15	17	18	19	20	21	23	24
1	12:35:00	929.5	930.9	928.4	931.2	929.1	928.0	934.4		932.0	932.0	933.0	930.0	930.0	930.0
2	12:35:30	930.5		932.5	932.9	931.7	927.0	934.7	934.0	934.0	932.8	934.0	932.0	931.0	932.0
3	12:36:00	930.5	931.2	931.7	932.0	930.0	928.0	932.4	933.0	932.0	932.4	933.0	931.0	930.0	931.0
4	12:36:30	929.5	929.8	930.8	931.2	930.0	927.0	934.0	934.0	932.0	928.8	934.0	931.0	930.0	931.0
5	12:37:00	929.5	929.5	930.0	930.3	928.3	927.0	931.7	933.0	932.0	930.8	933.0	931.0	930.0	931.0
6	12:37:30	928.5	928.8	931.7	932.0	930.0	928.0	935.0	931.0	932.0	930.6	932.0	930.0	929.0	930.0
7	12:38:00	929.5	931.4	932.5	932.9	930.8	930.0	936.0	933.0	933.0	933.6	933.0	932.0	931.0	932.0
8	12:38:30	931.4	932.5	932.5	934.6	932.5	931.0	938.3	935.0	934.0	931.9	936.0	934.0	932.0	933.0
9	12:39:00	932.4	932.7	932.5	934.6	933.4	932.0	938.9	936.0	935.0	933.6	937.0	935.0	933.0	934.0
10	12:39:30	932.4	932.6	933.3	935.5	933.4	924.0	940.6	936.0	936.0	934.5	937.0	935.0	933.0	934.0
11	12:40:00	927.5	926.0	924.3	926.8	924.9	919.0	932.1	928.0	928.0	928.3	929.0	927.0	926.0	927.0
12	12:40:30	923.6	923.7	933.5	925.1	923.2	910.0	928.1	926.0	927.0	924.9	926.0	924.0	924.0	925.0
13	12:41:00	922.6	922.7	925.1	926.8	924.9	915.0	930.1	922.0	926.0	925.6	926.0	925.0	923.0	925.0
14	12:41:30	918.7	916.7	917.8	919.0	916.4	920.0	924.2	920.0	919.0	917.2	919.0	918.0	918.0	918.0
15	12:42:00	922.6	921.0	921.9	924.2	922.3	926.0	927.8	924.0	924.0	922.5	924.0	923.0	922.0	922.0
16	12:42:30	926.6	926.2	928.4	930.3	928.3	927.0	935.3	930.0	929.0	929.7	931.0	929.0	927.0	928.0
17	12:43:00	929.5	928.9	928.4	931.2	929.1	924.0	935.0	921.0	932.0	931.0	932.0	930.0	929.0	930.0
18	12:43:30	929.5	926.9	925.9	929.4	926.6	927.0	931.4	929.0	929.0	928.6	930.0	928.0	926.0	927.0
19	12:44:00	931.4	929.0	930.8	932.9	930.0	925.0	937.3	931.0	931.0	930.0	932.0	931.0	929.0	930.0
20	12:44:30	929.5	927.1	925.1	928.5	926.6	926.0	932.7	929.0	929.0	928.5	930.0	928.0	927.0	928.0
21	12:45:00	930.5	928.2	928.4	931.2	928.3	926.0	935.3	929.0	931.0	928.9	931.0	930.0	928.0	929.0
1		.9988	1.0003	.9976	1.0006	.9993	.9971	1.0040		1.0014	1.0014	1.0025	.9993	.9993	.9993
2		.9981		1.0003	1.0007	.9994	.9944	1.0026	1.0019	1.0019	1.0006	1.0019	.9997	.9987	.9997
3		.9991	.9999	1.0004	1.0008	.9996	.9965	1.0012	1.0018	1.0008	1.0012	1.0018	.9997	.9986	.9997
4		.9984	.9988	.9999	1.0003	.9990	.9958	1.0033	1.0033	1.0011	.9977	1.0033	1.0001	.9990	1.0001
5		.9989	.9989	.9995	.9998	.9976	.9962	1.0013	1.0027	1.0016	1.0003	1.0027	1.0005	.9995	1.0005
6		.9977	.9981	1.0011	1.0015	.9993	.9972	1.0047	1.0004	1.0015	1.0000	1.0015	.9993	.9983	.9993
7		.9971	.9992	1.0003	1.0008	.9995	.9977	1.0041	1.0009	1.0009	1.0015	1.0009	.9998	.9987	.9998
8		.9978	.9990	.9989	1.0012	.9990	.9973	1.0052	1.0016	1.0006	.9983	1.0027	1.0006	.9984	.9995
9		.9980	.9983	.9980	1.0003	.9990	.9975	1.0049	1.0018	1.0008	.9993	1.0029	1.0008	.9986	.9997
10		.9982	.9984	.9991	1.0015	.9993	.9892	1.0070	1.0020	1.0020	1.0004	1.0031	1.0010	.9988	.9999
11		1.0009	.9992	.9974	1.0001	.9990	.9917	1.0058	1.0014	1.0014	1.0017	1.0025	1.0003	.9992	1.0003
12		.9989	.9990	1.0007	1.0006	.9985	.9842	1.0038	1.0015	1.0026	1.0003	1.0015	.9994	.9994	1.0005
13		.9982	.9983	1.0009	1.0027	1.0007	.9900	1.0063	.9975	1.0019	1.0014	1.0019	1.0008	.9986	1.0008
14		1.0000	.9978	.9990	1.0003	.9975	1.0014	1.0060	1.0014	1.0003	.9984	1.0003	.9992	.9992	.9992
15		.9992	.9974	.9984	1.0009	.9988	1.0028	1.0048	1.0007	1.0007	.9990	1.0007	.9996	.9985	.9985
16		.9974	.9970	.9994	1.0014	.9993	.9979	1.0068	1.0011	1.0000	1.0008	1.0022	1.0000	.9979	.9989
17		1.0001	.9995	.9990	1.0020	.9997	.9942	1.0061	.9910	1.0028	1.0018	1.0028	1.0007	.9996	1.0007
18		1.0014	.9986	.9976	1.0013	.9993	.9987	1.0035	1.0009	1.0009	1.0005	1.0020	.9998	.9977	.9987
19		1.0008	.9981	1.0001	1.0023	.9992	.9938	1.0070	1.0003	1.0003	.9992	1.0013	1.0003	.9981	.9992
20		1.0014	.9988	.9967	1.0003	.9993	.9976	1.0048	1.0008	1.0008	1.0003	1.0019	.9998	.9987	.9998
21		1.0009	.9985	.9987	1.0017	.9986	.9961	1.0061	.9993	1.0015	.9992	1.0015	1.0004	.9983	.9993
MEAN		.9991	.9987	.9996	1.0010	.9988	.9956	1.0047	1.0006	1.0012	1.0002	1.0020	1.0000	.9987	.9997
S.D.		.0013	.0008	.0026	.0008	.0007	.0042	.0017	.0026	.0007	.0012	.0008	.0005	.0005	.0006

MEAN	S.D.
930.65	1.842
932.23	2.014
931.29	1.372
930.94	2.049
930.51	1.673
930.61	1.851
932.19	1.645
933.48	1.996
934.29	1.965
934.09	3.619
926.71	2.915
924.58	4.957
924.28	3.377
918.71	1.916
923.38	1.810
928.98	2.330
929.36	3.426
928.17	1.643
930.75	2.641
928.22	1.883
929.63	2.179

TABLE 1- 4

FIRST INTERCOMPARISON - NOVEMBER 2, 1978
 RUN 4: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		1	2	4	5	7	13	15	17	18	19	20	21	23	24
1	13:00:00	934.0	935.7	930.0	930.9	929.2	929.0	936.8	931.0	935.0	932.1	933.0	932.0	932.0	932.0
2	13:00:30	935.0	937.9	932.4	934.4	930.8	932.0	937.8	934.0	937.0	935.1	936.0	935.0	934.0	935.0
3	13:01:00	930.1	932.9	925.1	928.3	924.9	926.0	930.6	928.0	933.0	929.6	930.0	929.0	929.0	929.0
4	13:01:30	932.1	935.2	930.0	932.6	929.2	928.5	936.2	931.0	935.0	932.4	934.0	931.0	931.0	932.0
5	13:02:00	936.0	940.2	933.2	936.1	933.4	932.0	938.8	935.0	938.0	937.4	937.0	935.0	934.0	936.0
6	13:02:30	939.9	943.6	937.3	939.6	936.8	935.0	942.7	938.0	942.0	939.7	940.0	939.0	938.0	939.0
7	13:03:00	943.8	949.0	942.2	943.0	941.9	940.0	947.6	942.0	946.0	943.6	945.0	943.0	942.0	943.0
8	13:03:30	950.7	954.0	947.8	949.1	947.0	945.0	952.7	947.0	952.0	951.5	950.0	949.0	948.0	948.0
9	13:04:00	953.7	957.2	950.3	951.7	950.4	948.0	953.7	950.0	955.0	954.1	953.0	951.0	951.0	951.0
10	13:04:30	954.6	958.1	951.1	949.1	949.5	949.0	953.7	951.0	956.0	951.1	953.0	952.0	952.0	953.0
11	13:05:00	952.7	955.1	949.5	950.0	947.8	947.0	950.5	944.0	952.0	947.5	951.0	950.0	949.0	950.0
12	13:05:30	951.7	955.2	950.3	950.9	948.7	947.0	952.4	949.0	952.0	947.4	952.0	950.0	949.0	950.0
13	13:06:00	955.6		948.7	949.1	947.0	947.0	950.1	949.0	951.0	948.2	952.0	950.0	949.0	949.0
14	13:08:30	936.0	937.4	934.8	936.1	935.1	942.0	945.3	935.0	939.0	941.1	940.0	940.0	935.0	937.0
15	13:09:00	943.8	943.4	938.9	941.3	939.3	939.0	950.5	940.0	946.0	944.1	945.0	944.0	941.0	943.0
16	13:09:30	946.8	945.9	940.5	943.9	942.7	937.0	953.7	944.0	948.0	940.7	948.0	947.0	944.0	945.0
17	13:10:00	942.9	945.7	935.7	940.4	938.5	938.0	947.9	940.0	945.0	940.1	944.0	943.0	940.0	941.0
18	13:10:30	942.9	943.2	934.0	940.4	937.6	941.0	948.2	939.0	944.0	941.1	943.0	942.0	939.0	941.0
19	13:11:00	944.8	944.8	934.0	940.4	938.5	942.0	950.8	940.0	945.0	945.0	942.0	942.0	940.0	942.0
20	13:11:30	949.7	943.2	938.9	943.9	941.0		952.1	942.0	947.0	944.2	944.0	945.0	942.0	944.0
21	13:12:00	946.8	945.3	939.7	945.6	942.7		955.6	943.0	949.0		946.0	946.0	944.0	945.0
1		1.0018	1.0036	.9974	.9985	.9966	.9964	1.0048	.9986	1.0029	.9997	1.0007	.9996	.9996	.9996
2		1.0003	1.0034	.9975	.9996	.9958	.9971	1.0033	.9992	1.0024	1.0004	1.0013	1.0003	.9992	1.0003
3		1.0012	1.0042	.9958	.9993	.9956	.9968	1.0018	.9990	1.0043	1.0007	1.0011	1.0000	1.0000	1.0000
4		.9999	1.0033	.9976	1.0005	.9968	.9961	1.0043	.9988	1.0031	1.0003	1.0020	.9988	.9988	.9998
5		1.0001	1.0046	.9972	1.0003	.9974	.9959	1.0031	.9991	1.0023	1.0016	1.0012	.9991	.9980	1.0001
6		1.0006	1.0045	.9978	1.0003	.9973	.9954	1.0036	.9986	1.0028	1.0004	1.0007	.9997	.9986	.9997
7		1.0001	1.0056	.9983	.9992	.9981	.9961	1.0041	.9982	1.0024	.9999	1.0014	.9992	.9982	.9992
8		1.0014	1.0048	.9983	.9997	.9975	.9953	1.0035	.9975	1.0027	1.0022	1.0006	.9996	.9985	.9985
9		1.0016	1.0053	.9980	.9995	.9982	.9956	1.0016	.9977	1.0030	1.0021	1.0009	.9988	.9988	.9988
10		1.0024	1.0060	.9987	.9966	.9970	.9965	1.0014	.9986	1.0038	.9987	1.0007	.9996	.9996	1.0007
11		1.0031	1.0057	.9997	1.0003	.9980	.9971	1.0008	.9940	1.0024	.9977	1.0014	1.0003	.9992	1.0003
12		1.0014	1.0051	.9999	1.0005	.9982	.9964	1.0021	.9985	1.0017	.9968	1.0017	.9996	.9985	.9996
13		1.0063		.9989	.9994	.9972	.9972	1.0005	.9993	1.0014	.9985	1.0025	1.0003	.9993	.9993
14		.9977	.9992	.9965	.9978	.9968	1.0041	1.0076	.9967	1.0009	1.0032	1.0020	1.0020	.9967	.9988
15		1.0011	1.0006	.9959	.9984	.9963	.9960	1.0081	.9970	1.0034	1.0014	1.0023	1.0013	.9981	1.0002
16		1.0020	1.0021	.9954	.9990	.9977	.9917	1.0093	.9991	1.0033	.9956	1.0033	1.0023	.9991	1.0001
17		1.0014	1.0044	.9937	.9987	.9967	.9962	1.0067	.9983	1.0036	.9984	1.0026	1.0015	.9983	.9994
18		1.0018	1.0022	.9924	.9992	.9962	.9998	1.0075	.9977	1.0030	.9999	1.0019	1.0009	.9977	.9998
19		1.0027	1.0027	.9913	.9980	.9960	.9997	1.0091	.9976	1.0029	1.0029	.9997	.9997	.9976	.9997
20		1.0053	1.0036	.9938	.9991	.9960		1.0077	.9971	1.0024	.9994	.9992	1.0002	.9971	.9992
21		1.0009	1.0025	.9934	.9996	.9965		1.0102	.9969	1.0032		1.0000	1.0000	.9979	.9990
MEAN		1.0016	1.0037	.9966	.9992	.9969	.9968	1.0048	.9980	1.0028	1.0000	1.0013	1.0001	.9985	.9996
S.D.		.0018	.0017	.0024	.0010	.0008	.0024	.0031	.0012	.0008	.0020	.0010	.0010	.0009	.0006

MEAN	S.D.
932.34	2.366
934.74	2.079
928.97	2.467
932.15	2.290
935.86	2.298
939.53	2.334
943.72	2.426
949.42	2.525
952.14	2.407
952.57	2.621
949.71	2.697
950.40	2.179
949.67	2.272
938.13	3.195
942.81	3.206
944.87	4.066
941.58	3.330
941.17	3.305
942.24	3.886
944.77	3.662
945.98	3.955

TABLE 1- 5

FIRST INTERCOMPARISON - NOVEMBER 2, 1978
 RUN 5: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		1	2	4	5	7	13	15	17	18	19	20	21	23	24
1	13:53:00	924.8	932.2		926.9	930.1	927.0		928.0	934.0	924.1	931.0	930.0	930.0	931.0
2	13:53:30	925.8	928.3		925.2	927.5	924.0		925.0	929.0	918.6	930.0	929.0	928.0	929.0
3	13:54:00	918.9	926.8		922.6	924.2	921.0		923.0	927.0	920.3	926.0	924.0	924.0	926.0
4	13:54:30	921.8	926.3	925.3	924.3	923.3	920.0		922.0	925.0	919.9	925.0	924.0	923.0	925.0
5	13:55:00	923.8	930.7	922.1	926.9	924.2	922.0		924.0	926.0	921.3	929.0	926.0	924.0	927.0
6	13:55:30	920.9	925.1	916.4	920.0	919.9	917.0		919.0	923.0	916.5	923.0	920.0	920.0	922.0
7	13:56:00	922.8	928.0	918.8	923.5	923.3	919.0		921.0	924.0	917.1	926.0	923.0	921.0	923.0
8	13:57:30	910.1	904.8	899.2	901.7	904.6	900.0		909.0	903.0	892.0	907.0	903.0	902.0	904.0
9	13:58:00	911.1	913.0	905.8	910.4	911.4	907.0		911.0	912.0	906.5	913.0	910.0	909.0	911.0
10	13:58:30	916.0	915.3	906.6	913.0	912.3	909.0		908.0	913.0	905.1	914.0	912.0	911.0	912.0
11	13:59:00	911.1	912.6	903.3	909.6	908.0	906.0		910.0	910.0	902.0	911.0	908.0	908.0	910.0
12	13:59:30	911.1	913.2	905.8	907.8	910.6	908.0		911.0	911.0	902.3	912.0	910.0	909.0	911.0
13	14:00:00	914.0	914.0	905.8	913.0	910.6	909.0		914.0	913.0	910.5	914.0	911.0	910.0	912.0
14	14:00:30	917.9	918.4	909.8	917.4	915.7	909.0		923.0	916.0	913.6	917.0	914.0	913.0	916.0
15	14:02:00	917.9	917.4	908.2	927.8	912.3	912.0		913.0	915.0	911.9	917.0	926.0	912.0	915.0
16	14:02:30	916.9	918.3	908.2	914.8	913.1	921.0		911.0	913.0	907.6	915.0	913.0	911.0	912.0
17	14:03:00	917.9	914.3	909.8	913.9	915.7	910.0		913.0	915.0	913.3	917.0	911.0	913.0	915.0
18	14:05:00	907.1	918.7	892.7	916.5	900.4	909.0		902.0	900.0	895.1	905.0	914.0	901.0	901.0
19	14:05:30	909.1	906.5	899.2	904.3	904.6	912.0		903.0	906.0	898.5	906.0	904.0	903.0	905.0
20	14:06:00	913.0	906.5	899.2	913.9	904.6			903.0	906.0	897.3	906.0	904.0	903.0	905.0
21	14:06:30	915.0	909.0	900.5	916.5	908.0			906.0	909.0	903.2	910.0	906.0	906.0	908.0
1		.9954	1.0033		.9976	1.0011	.9978		.9988	1.0053	.9946	1.0021	1.0010	1.0010	1.0021
2		.9991	1.0018		.9985	1.0010	.9972		.9983	1.0026	.9914	1.0037	1.0026	1.0015	1.0026
3		.9949	1.0034		.9989	1.0006	.9971		.9993	1.0036	.9964	1.0025	1.0004	1.0004	1.0025
4		.9982	1.0031	1.0020	1.0009	.9998	.9963		.9984	1.0017	.9961	1.0017	1.0006	.9995	1.0017
5		.9985	1.0060	.9967	1.0019	.9990	.9966		.9988	1.0009	.9958	1.0042	1.0009	.9988	1.0020
6		1.0007	1.0053	.9956	.9998	.9997	.9965		.9987	1.0030	.9960	1.0030	.9998	.9998	1.0019
7		1.0005	1.0061	.9962	1.0012	1.0010	.9964		.9985	1.0018	.9943	1.0040	1.0007	.9985	1.0007
8		1.0077	1.0019	.9957	.9984	1.0016	.9966		1.0065	.9999	.9877	1.0043	.9999	.9988	1.0010
9		1.0011	1.0032	.9953	1.0003	1.0014	.9966		1.0010	1.0021	.9961	1.0032	.9999	.9988	1.0010
10		1.0051	1.0044	.9948	1.0018	1.0011	.9974		.9963	1.0018	.9932	1.0029	1.0007	.9996	1.0007
11		1.0029	1.0046	.9944	1.0013	.9995	.9973		1.0017	1.0017	.9929	1.0028	.9995	.9995	1.0017
12		1.0018	1.0041	.9960	.9982	1.0013	.9984		1.0017	1.0017	.9921	1.0028	1.0006	.9995	1.0017
13		1.0026	1.0026	.9936	1.0015	.9989	.9971		1.0026	1.0015	.9988	1.0026	.9993	.9982	1.0004
14		1.0027	1.0032	.9939	1.0021	1.0003	.9930		1.0082	1.0006	.9980	1.0017	.9984	.9973	1.0006
15		1.0023	1.0017	.9917	1.0131	.9962	.9958		.9969	.9991	.9957	1.0013	1.0111	.9958	.9991
16		1.0038	1.0053	.9945	1.0015	.9996	1.0083		.9973	.9995	.9936	1.0017	.9995	.9973	.9984
17		1.0045	1.0006	.9957	1.0001	1.0021	.9959		.9992	1.0013	.9995	1.0035	.9970	.9992	1.0013
18		1.0026	1.0153	.9866	1.0129	.9951	1.0046		.9969	.9947	.9893	1.0002	1.0102	.9958	.9958
19		1.0049	1.0020	.9940	.9995	.9999	1.0081		.9981	1.0014	.9931	1.0014	.9992	.9981	1.0003
20		1.0087	1.0015	.9935	1.0097	.9994			.9976	1.0010	.9913	1.0010	.9988	.9976	.9999
21		1.0075	1.0010	.9920	1.0092	.9999			.9977	1.0010	.9946	1.0021	.9977	.9977	.9999
	MEAN	1.0022	1.0038	.9946	1.0023	.9999	.9983		.9997	1.0013	.9943	1.0025	1.0008	.9987	1.0007
	S.D.	.0037	.0031	.0030	.0047	.0017	.0041		.0031	.0020	.0030	.0011	.0035	.0015	.0016

MEAN	S.D.
929.09	2.978
926.61	3.169
923.65	2.612
923.46	2.028
925.15	2.785
920.21	2.640
922.35	2.974
903.11	4.614
910.09	2.366
911.33	3.287
908.43	3.075
909.44	2.910
911.61	2.464
915.45	3.687
915.81	5.623
913.46	3.798
913.77	2.473
904.81	7.941
904.71	3.582
905.13	4.759
908.13	4.395

TABLE 1- 6

FIRST INTERCOMPARISON - NOVEMBER 2, 1978
 RUN 6: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	2	4	5	7	13	15	17	18	19	20	21	23	24
1	14:22:00	917.2	919.1	912.8	913.6	916.9	915.0	918.8	916.0	922.0	910.3	919.0	917.0	916.0	917.0
2	14:22:30	914.3	913.5	907.1	905.8	911.8	911.0	910.9	912.0	917.0	900.8	914.0	912.0	912.0	913.0
3	14:23:00	918.2	904.3	900.5	895.3	905.9	906.0	910.9	906.0	911.0	886.9	908.0	907.0	906.0	907.0
4	14:23:30	903.5	901.9	894.8	900.6	899.1	900.0	903.2	900.0	905.0	900.0	902.0	900.0	900.0	901.0
5	14:24:00	906.5	893.9	890.8	891.0	896.5	899.0	898.6	896.0	900.0	885.4	900.0	897.0	896.0	897.0
6	14:24:30	896.7	893.1	889.1	891.9	894.0	895.0	895.9	894.0	897.0	876.8	898.0	895.0	893.0	895.0
7	14:25:00	893.7	891.3	886.7	891.9	891.4	892.0	894.5	891.0	895.0	885.5	894.0	892.0	890.0	892.0
8	14:25:30	900.6	890.8	885.9	891.0	889.7	890.0	893.9	890.0	895.0	883.9	893.0	891.0	889.0	891.0
9	14:26:00	890.8	884.4	881.0	881.4	885.5	888.0	888.5	886.0	890.0	877.3	889.0	887.0	885.0	886.0
10	14:26:30	897.7	890.9	884.2	891.0	890.6	885.0	895.2	891.0	893.0	883.3	892.0	890.0	888.0	889.0
11	14:27:00	906.5	893.4	891.6	897.3	895.7	893.0	900.6	895.0	900.0	886.5	898.0	896.0	894.0	896.0
12	14:27:30	900.6	895.4	891.6	892.7	896.5	894.5	901.6	896.0	900.0	878.9	898.0	896.0	895.0	896.0
13	14:28:00	897.7	896.3	889.9	896.2	894.8	895.0	899.6	896.0	900.0	887.8	898.0	896.0	895.0	896.0
14	14:28:30	899.6	894.4	887.5	893.6	892.3	892.0	900.2	893.0	897.0	884.8	895.0	893.0	892.0	893.0
15	14:29:00	898.6	895.3	892.4	896.2	898.2	896.5	903.9	898.0	902.0	890.3	900.0	898.0	897.0	898.0
16	14:29:30	904.5	903.3	896.5	904.9	894.0	901.0	909.5	902.0	907.0	897.8	905.0	903.0	901.0	903.0
17	14:34:00	881.0		868.7	875.3	874.4	873.0	881.1	874.0	879.0	868.1	879.0	876.0	872.0	875.0
18	14:34:30	878.1		872.0	872.7	877.0	877.0	884.8	879.0	882.0	869.9	882.0	878.0	877.0	878.0
19	14:35:00	880.1		876.1	885.8	882.9	880.0	891.2	882.0	886.0	879.3	886.0	884.0	882.0	883.0
20	14:35:30	870.3		870.4	879.7	877.0	873.0	883.5	875.0	880.0	870.8	879.0	876.0	873.0	876.0
21	14:36:00	880.1		874.4	884.0	881.2	878.0	887.5	881.0	885.0	876.6	883.0	880.0	880.0	881.0
1		1.0008	1.0029	.9960	.9969	1.0005	.9984	1.0025	.9995	1.0060	.9933	1.0028	1.0006	.9995	1.0006
2		1.0035	1.0027	.9956	.9942	1.0008	.9999	.9998	1.0010	1.0065	.9887	1.0032	1.0010	1.0010	1.0021
3		1.0143	.9990	.9948	.9890	1.0008	1.0009	1.0063	1.0039	1.0064	.9798	1.0031	1.0020	1.0009	1.0020
4		1.0030	1.0012	.9934	.9998	.9981	.9991	1.0027	.9991	1.0047	.9991	1.0013	.9991	.9991	1.0002
5		1.0114	.9974	.9939	.9941	1.0003	1.0031	1.0026	.9997	1.0042	.9879	1.0042	1.0008	.9997	1.0008
6		1.0039	.9999	.9955	.9986	1.0009	1.0020	1.0030	1.0009	1.0043	.9817	1.0054	1.0020	.9998	1.0020
7		1.0025	.9998	.9946	1.0004	.9999	1.0006	1.0034	.9994	1.0039	.9933	1.0028	1.0006	.9983	1.0006
8		1.0107	.9997	.9942	.9999	.9985	.9988	1.0032	.9988	1.0044	.9920	1.0022	.9999	.9977	.9999
9		1.0058	.9985	.9947	.9951	.9998	1.0026	1.0032	1.0003	1.0048	.9905	1.0037	1.0015	.9992	1.0003
10		1.0085	1.0009	.9934	1.0011	1.0006	.9943	1.0058	1.0011	1.0033	.9924	1.0022	.9999	.9977	.9988
11		1.0117	.9971	.9951	1.0015	.9997	.9967	1.0052	.9989	1.0045	.9894	1.0023	1.0000	.9978	1.0000
12		1.0060	1.0002	.9959	.9972	1.0015	.9992	1.0072	1.0009	1.0054	.9818	1.0031	1.0007	.9998	1.0009
13		1.0023	1.0008	.9937	1.0007	.9991	.9993	1.0045	1.0005	1.0049	.9913	1.0027	1.0005	.9993	1.0005
14		1.0070	1.0011	.9934	1.0002	.9988	.9984	1.0076	.9996	1.0040	.9904	1.0018	.9996	.9984	.9996
15		1.0011	1.0007	.9941	.9984	1.0006	.9987	1.0069	1.0004	1.0048	.9918	1.0026	1.0004	.9992	1.0004
16		1.0024	1.0011	.9935	1.0029	.9988	.9985	1.0080	.9996	1.0052	.9950	1.0030	1.0008	.9985	1.0008
17		1.0068		.9927	1.0002	.9992	.9976	1.0068	.9987	1.0044	.9920	1.0044	1.0010	.9964	.9999
18		1.0007		.9937	.9945	.9994	.9994	1.0083	1.0017	1.0051	.9913	1.0051	1.0006	.9994	1.0006
19		.9967		.9922	1.0032	.9999	.9967	1.0093	.9989	1.0035	.9959	1.0035	1.0012	.9989	1.0001
20		.9939		.9939	1.0046	1.0015	.9970	1.0089	.9992	1.0050	.9944	1.0038	1.0004	.9970	1.0004
21		.9990		.9927	1.0035	1.0003	.9967	1.0075	1.0001	1.0046	.9951	1.0024	.9990	.9990	1.0001
MEAN		1.0044	1.0002	.9941	.9989	.9996	.9989	1.0054	1.0000	1.0048	.9908	1.0031	1.0006	.9989	1.0005
S.D.		.0051	.0016	.0011	.0038	.0022	.0021	.0026	.0009	.0008	.0048	.0010	.0008	.0011	.0008

MEAN	S.D.
916.48	2.950
911.08	4.078
905.22	7.376
900.80	2.407
896.26	5.021
893.18	5.227
891.50	2.707
891.05	3.972
885.71	3.765
890.06	4.019
895.97	4.666
895.20	5.479
895.59	3.293
893.39	4.076
897.67	3.409
902.32	4.127
875.13	4.162
877.50	4.171
882.95	3.823
875.66	4.134
880.91	3.482

TABLE 1- 7

FIRST INTERCOMPARISON - NOVEMBER 2, 1978
 RUN 7: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	2	4	5	7	13	15	17	18	19	20	21	23	24
1	14:49:00	866.4	864.8	861.5	867.2	865.1	863.0	871.4	865.0	866.0	862.1	869.0	866.0	864.0	866.0
2	14:49:30	864.5	865.1	859.1	865.4	864.2	862.0	870.4	865.0	867.0	863.6	868.0	865.0	864.0	866.0
3	14:50:00	869.4	864.4	862.3	867.2	865.9	864.0	871.8	867.0	868.0	858.5	870.0	867.0	866.0	867.0
4	14:50:30	875.3	868.4	865.6	869.8	870.2	867.0	874.9	871.0	871.0	857.2	874.0	870.0	868.0	870.0
5	14:51:00	870.3	869.6	865.6	870.6	869.3	868.0	875.9	871.0	872.0	865.6	874.0	870.0	870.0	871.0
6	14:51:30	873.3	869.2	865.6	868.0	870.2	868.0	876.9	870.0	873.0	859.9	872.0	870.0	869.0	871.0
7	14:52:00	867.4	865.6	860.7	865.4	865.9	864.0	870.8	867.0	870.0	863.6	869.0	866.0	866.0	867.0
8	14:52:30	860.5	852.2	849.3	850.6	852.4	851.0	858.4	854.0	857.0	848.6	856.0	854.0	854.0	855.0
9	14:53:00	850.7	847.7	846.0	849.8	849.0	847.0	856.0	850.0	851.0	846.3	851.0	850.0	848.0	850.0
10	14:53:30	851.7	848.2	846.0	850.6	850.7	849.0	857.7	852.0	852.0	841.3	853.0	852.0	850.0	852.0
11	14:54:00	854.7	849.5	847.6	852.4	851.5	849.0	858.4	853.0	853.0	845.7	856.0	852.0	851.0	852.0
12	14:54:30	855.6	851.2	848.5	852.4	852.4	851.0	856.7	855.0	855.0	841.7	858.0	853.0	852.0	854.0
13	14:55:00	857.6	853.2	849.3	855.9	854.1	852.0	861.5	856.0	856.0	848.6	858.0	855.0	853.0	855.0
14	14:55:30	857.6	854.8	850.1	857.6	855.8	854.0	863.6	857.0	858.0	857.4	860.0	856.0	855.0	856.0
15	15:03:00	820.3	819.4	817.4	824.6	822.6	840.0	832.7	822.0	827.0	819.9	824.0	823.0	822.0	823.0
16	15:03:30	829.1	829.6	826.4	831.5	831.1	819.0	838.0	831.0	836.0	828.9	833.0	831.0	830.0	831.0
17	15:04:00	834.0	832.1	828.9	835.9	833.7	828.0	842.1	834.0	838.0	830.7	836.0	834.0	834.0	835.0
18	15:04:30	838.0	833.7	828.9	837.6	834.5	831.0	844.9	835.0	839.0	835.3	836.0	836.0	835.0	836.0
19	15:05:00	837.0	833.7	833.8	840.2	837.9	832.0	845.6	838.0	842.0	839.2	840.0	838.0	838.0	839.0
20	15:05:30	837.0	837.1	829.7	838.5	835.4	835.0	842.1	836.0	840.0	838.9	837.0	836.0	836.0	837.0
21	15:06:00	833.1	834.5	827.2	835.0	832.8	833.5	840.4	834.0	835.0	837.6	834.0	833.0	832.0	834.0
1		1.0010	.9991	.9954	1.0019	.9995	.9971	1.0068	.9994	1.0005	.9960	1.0040	1.0005	.9982	1.0005
2		.9994	1.0032	.9932	1.0005	.9991	.9966	1.0063	1.0001	1.0024	.9984	1.0035	1.0001	.9989	1.0012
3		1.0035	.9978	.9954	1.0010	.9995	.9973	1.0063	1.0008	1.0019	.9910	1.0042	1.0008	.9996	1.0008
4		1.0067	.9938	.9956	1.0004	1.0009	.9972	1.0063	1.0018	1.0018	.9859	1.0052	1.0006	.9983	1.0006
5		1.0002	.9993	.9947	1.0004	.9990	.9975	1.0065	1.0009	1.0021	.9947	1.0044	.9998	.9998	1.0009
6		1.0041	.9994	.9953	.9980	1.0005	.9980	1.0083	1.0003	1.0038	.9887	1.0026	1.0003	.9992	1.0015
7		1.0013	.9992	.9935	.9989	.9995	.9973	1.0052	1.0008	1.0043	.9969	1.0031	.9996	.9996	1.0008
8		1.0079	.9981	.9947	.9963	.9984	.9967	1.0054	1.0003	1.0038	.9939	1.0026	1.0003	1.0003	1.0014
9		1.0015	.9979	.9959	1.0004	.9995	.9971	1.0077	1.0006	1.0018	.9963	1.0018	1.0006	.9983	1.0006
10		1.0015	.9974	.9948	1.0002	1.0003	.9983	1.0085	1.0018	1.0018	.9892	1.0030	1.0018	.9995	1.0018
11		1.0033	.9973	.9951	1.0007	.9996	.9967	1.0077	1.0014	1.0014	.9928	1.0049	1.0002	.9990	1.0002
12		1.0035	.9984	.9951	.9998	.9998	.9981	1.0048	1.0028	1.0028	.9872	1.0063	1.0005	.9993	1.0016
13		1.0034	.9983	.9937	1.0015	.9994	.9969	1.0080	1.0016	1.0016	.9929	1.0039	1.0004	.9981	1.0004
14		1.0011	.9979	.9924	1.0011	.9990	.9969	1.0081	1.0004	1.0016	1.0009	1.0039	.9993	.9981	.9993
15		.9953	.9943	.9919	1.0006	.9981	1.0192	1.0104	.9974	1.0025	.9949	.9998	.9986	.9974	.9986
16		.9985	.9990	.9952	1.0013	1.0008	.9863	1.0091	1.0007	1.0067	.9982	1.0031	1.0007	.9995	1.0007
17		1.0000	.9977	.9938	1.0022	.9996	.9928	1.0097	1.0000	1.0048	.9960	1.0024	1.0000	1.0000	1.0012
18		1.0026	.9975	.9917	1.0022	.9985	.9943	1.0109	.9991	1.0029	.9994	1.0003	1.0003	.9991	1.0003
19		.9986	.9947	.9947	1.0024	.9997	.9926	1.0089	.9998	1.0046	1.0012	1.0022	.9998	.9998	1.0010
20		1.0002	1.0003	.9915	1.0020	.9983	.9978	1.0063	.9990	1.0038	1.0025	1.0002	.9990	.9990	1.0002
21		.9989	1.0006	.9919	1.0012	.9986	.9994	1.0077	1.0000	1.0012	1.0043	1.0000	.9988	.9976	1.0000
MEAN		1.0015	.9982	.9941	1.0006	.9994	.9973	1.0076	1.0004	1.0028	.9953	1.0029	1.0001	.9990	1.0006
S.D.		.0029	.0016	.0014	.0015	.0008	.0058	.0017	.0012	.0015	.0050	.0018	.0007	.0008	.0008

MEAN	S.D.
865.54	2.607
864.94	2.651
866.32	3.331
869.45	4.509
870.21	2.773
869.72	3.946
866.32	2.615
853.79	3.435
849.47	2.534
850.44	3.733
851.84	3.293
852.61	4.016
854.65	3.396
856.63	3.058
824.14	5.868
830.40	4.378
834.03	3.587
835.77	3.720
838.17	3.488
836.83	2.823
834.01	2.903

TABLE 1- 8

FIRST INTERCOMPARISON - NOVEMBER 3, 1973
 RUN 8: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	2	4	5	7	13	15	17	18	19	20	21	23	24
1	10:14:00	907.3	906.9	904.5	906.4	904.5		909.1	905.0	907.0	905.9	906.0	906.0	906.0	906.0
2	10:14:30	906.4	905.6	906.1	907.2	904.5		909.7	905.0	906.0	906.0	908.0	906.0	906.0	906.0
3	10:15:00	907.3	905.4	907.7	909.0	906.2		913.4	907.0	908.0	904.8	909.0	908.0	907.0	908.0
4	10:15:30	911.3	910.7	907.7	909.8	907.9		913.4	909.0	910.0	908.3	911.0	910.0	909.0	910.0
5	10:16:00	910.3	911.2	909.3	910.7	908.8		914.1	909.0	911.0	910.8	911.0	910.0	909.0	910.0
6	10:16:30	912.3	911.8	910.9	910.7	909.6		917.1	911.0	912.0	908.6	913.0	911.0	911.0	912.0
7	10:17:00	913.3	913.1	910.1	912.4	909.6		917.1	910.0	912.0	912.6	912.0	911.0	911.0	912.0
8	10:17:30	914.3	912.7	911.7	913.3	910.5		917.1	911.0	913.0	913.3	913.0	912.0	912.0	912.0
9	10:18:00	915.3	913.6	909.3	913.3	910.5		916.1	912.0	914.0	911.9	914.0	913.0	912.0	913.0
10	10:18:30	913.3	914.7	910.9	915.1	912.1		918.4	913.0	915.0	913.6	915.0	913.0	913.0	914.0
11	10:19:00	912.3	916.6	912.5	915.9	913.0		920.4	914.0	915.0	915.0	916.0	914.0	914.0	915.0
12	10:19:30	915.3	914.1	910.9	914.2	911.3		920.4	912.0	914.0	913.0	914.0	913.0	912.0	913.0
13	10:20:00	913.3	911.8	908.5	912.4	909.6		917.7	910.0	913.0	912.1	912.0	911.0	911.0	912.0
14	10:20:30	912.3	911.6	907.7	911.6	909.6		915.8	910.0	912.0	911.9	912.0	911.0	911.0	912.0
15	10:21:00	912.3	913.9	908.5	911.6	909.6		916.1	910.0	912.0	908.9	912.0	911.0	910.0	912.0
16	10:21:30	914.3	914.1	910.1	914.2	911.3		919.7	911.0	913.0	911.7	913.0	912.0	912.0	913.0
17	10:22:00	912.3	914.2	909.3	913.3	910.5		919.7	911.0	913.0	911.2	913.0	912.0	912.0	912.0
18	10:22:30	913.3	916.0	910.1	914.2	911.3		921.7	912.0	914.0	910.0	914.0	913.0	913.0	913.0
19	10:23:00	914.3	916.2	911.7	915.1	912.1		918.4	913.0	915.0	914.3	915.0	914.0	913.0	915.0
20	10:23:30	912.3	917.7	911.7	915.9	913.8		921.4	913.0	916.0	912.9	915.0	914.0	914.0	915.0
21	10:24:00	915.3		910.9	916.8	914.7		923.7	914.0	916.0	914.5	916.0	915.0	914.0	916.0
1		1.0013	1.0008	.9981	1.0002	.9981		1.0032	.9987	1.0009	.9997	.9998	.9998	.9998	.9998
2		1.0000	.9992	.9997	1.0009	.9980		1.0037	.9985	.9996	.9996	1.0018	.9996	.9996	.9996
3		.9996	.9974	.9999	1.0014	.9983		1.0062	.9992	1.0003	.9967	1.0014	1.0003	.9992	1.0003
4		1.0016	1.0009	.9976	.9999	.9979		1.0039	.9991	1.0002	.9963	1.0013	1.0002	.9991	1.0002
5		.9999	1.0009	.9988	1.0003	.9982		1.0041	.9985	1.0007	1.0004	1.0007	.9996	.9985	.9996
6		1.0007	1.0002	.9992	.9990	.9978		1.0060	.9993	1.0004	.9967	1.0015	.9993	.9993	1.0004
7		1.0014	1.0012	.9979	1.0004	.9974		1.0056	.9978	1.0000	1.0006	1.0000	.9989	.9989	1.0000
8		1.0017	.9999	.9989	1.0006	.9975		1.0048	.9981	1.0003	1.0006	1.0003	.9992	.9992	.9992
9		1.0026	1.0007	.9960	1.0004	.9973		1.0035	.9990	1.0012	.9989	1.0012	1.0001	.9990	1.0001
10		.9993	1.0008	.9967	1.0013	.9980		1.0049	.9990	1.0012	.9996	1.0012	.9990	.9990	1.0001
11		.9971	1.0019	.9974	1.0011	.9979		1.0060	.9990	1.0001	1.0001	1.0012	.9990	.9990	1.0001
12		1.0018	1.0005	.9970	1.0006	.9975		1.0074	.9982	1.0004	.9993	1.0004	.9993	.9982	.9993
13		1.0015	.9999	.9963	1.0006	.9975		1.0064	.9979	1.0012	1.0002	1.0001	.9990	.9990	1.0001
14		1.0010	1.0002	.9959	1.0002	.9980		1.0048	.9984	1.0006	1.0005	1.0006	.9995	.9995	1.0006
15		1.0010	1.0028	.9968	1.0002	.9981		1.0052	.9985	1.0007	.9973	1.0007	.9996	.9985	1.0007
16		1.0014	1.0012	.9968	1.0013	.9981		1.0073	.9978	1.0000	.9985	1.0000	.9989	.9989	1.0000
17		.9997	1.0018	.9964	1.0008	.9977		1.0078	.9983	1.0005	.9985	1.0005	.9994	.9994	.9994
18		.9998	1.0027	.9963	1.0008	.9976		1.0090	.9984	1.0005	.9962	1.0005	.9994	.9994	.9994
19		.9999	1.0020	.9972	1.0008	.9975		1.0044	.9985	1.0007	.9999	1.0007	.9996	.9985	1.0007
20		.9972	1.0031	.9966	1.0012	.9989		1.0072	.9980	1.0013	.9979	1.0002	.9991	.9991	1.0002
21		.9997		.9949	1.0013	.9990		1.0089	.9983	1.0005	.9988	1.0005	.9994	.9983	1.0005
MEAN		1.0004	1.0009	.9974	1.0006	.9979		1.0057	.9985	1.0005	.9990	1.0007	.9994	.9990	1.0000
S.D.		.0014	.0013	.0013	.0006	.0005		.0017	.0005	.0004	.0014	.0006	.0004	.0004	.0005

MEAN	S.D.
906.20	1.241
906.34	1.328
907.76	2.105
909.85	1.559
910.40	1.394
911.62	2.008
912.01	1.930
912.76	1.654
912.92	1.831
913.93	1.821
914.90	2.118
913.63	2.391
911.88	2.220
911.42	1.845
911.38	2.086
913.03	2.382
912.58	2.496
913.51	2.974
914.39	1.765
914.82	2.576
915.57	2.970

TABLE 1-9

FIRST INTERCOMPARISON - NOVEMBER 3, 1978
 RUN 9: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	2	4	5	7	13	15	17	18	19	20	21	23	24
1	10:50:00	916.4	916.7		916.8	914.0	911.1	919.9		919.0	917.4	917.0	915.0	914.0	916.0
2	10:50:30	917.3	916.4		917.7	914.9	909.0	922.6		919.0	917.2	918.0	916.0	915.0	917.0
3	10:51:00	918.3	916.5		917.7	914.9	908.0	918.3		919.0	915.8	917.0	916.0	915.0	917.0
4	10:51:30		916.0		917.7	915.7	911.0	922.9	916.0	919.0	916.4	918.0	916.0	915.0	917.0
5	10:52:00	916.4	919.1		920.3	916.6	913.0	925.2	918.0	921.0	919.2	918.0	917.0	916.0	918.0
6	10:52:30	924.3	923.6		924.6	921.7	918.0	928.9	922.0	925.0	924.2	923.0	922.0	921.0	923.0
7	10:53:00	925.3	925.7		925.5	923.4	919.0		924.0	927.0	925.9	925.0	924.0	923.0	925.0
8	10:53:30	925.3	925.9		925.5	923.4	919.0	927.5	924.0	927.0	926.2	925.0	923.0	922.0	925.0
9	10:54:00	927.2	925.5		925.5	922.5	919.0	929.2	924.0	927.0	925.1	924.0	923.0	922.0	924.0
10	10:54:30	925.3	923.4		924.6	922.5	918.0	928.2	923.0	926.0	923.6	924.0	923.0	922.0	924.0
11	10:55:00		922.8		924.2	921.7	918.0	926.6	923.0	925.0	922.9	924.0	922.0	921.0	923.0
12	10:55:30	922.3	923.3		922.9	921.7	918.0	927.2	923.0	924.0	922.6	925.0	922.0	921.0	923.0
13	10:56:00	923.3	921.2		922.0	920.0	917.0	925.6	922.0	923.0	921.5	923.0	920.0	920.0	922.0
14	10:56:30		921.2		922.9	921.7	918.0	928.9	923.0	924.0	922.6	925.0	921.0	921.0	922.0
15	10:57:00	923.3	922.5		923.3	921.7	919.0	927.2	924.0	925.0	922.2	925.0	922.0	922.0	924.0
16	10:57:30	922.3	923.2		923.8	921.7	918.0	927.2	924.0	925.0	923.7	925.0	922.0	922.0	923.0
17	10:58:00	918.3	920.8		922.0	920.0	918.0	926.9	922.0	924.0	921.3	922.0	920.0	920.0	922.0
18	10:58:30	922.3	921.4		923.8	921.7	921.0	928.9	923.0	924.0	923.2	924.0	921.0	921.0	923.0
19	10:59:00	928.2	926.7		927.2	924.2	921.0	929.9	926.0	928.0	927.3	927.0	924.0	925.0	926.0
20	10:59:30	928.2	926.8		925.5	924.2	921.0	930.5	926.0	928.0	926.5	925.0	924.0	924.0	926.0
21	11:00:00	921.3	924.6		926.4	924.2		928.2	925.0	927.0	925.4	925.0	924.0	924.0	926.0
1		1.0003	1.0006		1.0008	.9977	.9945	1.0041		1.0032	1.0014	1.0010	.9988	.9977	.9999
2		1.0007	.9997		1.0011	.9981	.9916	1.0065		1.0025	1.0006	1.0014	.9993	.9982	1.0003
3		1.0024	1.0004		1.0017	.9987	.9911	1.0024		1.0031	.9996	1.0010	.9999	.9980	1.0010
4			.9992		1.0011	.9989	.9938	1.0067	.9992	1.0025	.9996	1.0014	.9992	.9981	1.0003
5		.9979	1.0009		1.0022	.9982	.9942	1.0075	.9997	1.0030	1.0010	.9997	.9986	.9975	.9997
6		1.0012	1.0005		1.0015	.9984	.9944	1.0062	.9987	1.0020	1.0011	.9998	.9987	.9976	.9998
7		1.0009	1.0014		1.0012	.9989	.9942		.9996	1.0028	1.0016	1.0007	.9996	.9985	1.0007
8		1.0008	1.0015		1.0011	.9988	.9940	1.0032	.9994	1.0027	1.0018	1.0005	.9984	.9973	1.0005
9		1.0030	1.0011		1.0011	.9979	.9941	1.0051	.9995	1.0027	1.0007	.9995	.9984	.9973	.9995
10		1.0017	.9997		1.0010	.9987	.9939	1.0049	.9993	1.0025	.9999	1.0004	.9993	.9982	1.0004
11			.9999		1.0015	.9988	.9947	1.0041	1.0002	1.0023	1.0001	1.0012	.9991	.9980	1.0002
12		.9995	1.0006		1.0001	.9988	.9948	1.0048	1.0003	1.0013	.9998	1.0024	.9992	.9981	1.0003
13		1.0018	.9996		1.0005	.9983	.9950	1.0044	1.0005	1.0015	.9999	1.0015	.9983	.9983	1.0005
14			.9985		1.0003	.9990	.9950	1.0068	1.0004	1.0015	1.0030	1.0026	.9983	.9983	.9993
15		1.0001	.9993		1.0001	.9984	.9955	1.0044	1.0009	1.0020	.9990	1.0020	.9987	.9987	1.0009
16		.9991	1.0001		1.0007	.9984	.9944	1.0044	1.0009	1.0020	1.0036	1.0020	.9988	.9988	.9998
17		.9968	.9994		1.0007	.9986	.9964	1.0060	1.0007	1.0029	1.0030	1.0007	.9986	.9986	1.0007
18		.9993	.9983		1.0009	.9987	.9979	1.0065	1.0001	1.0011	1.0033	1.0011	.9979	.9979	1.0001
19		1.0022	1.0005		1.0011	.9978	.9944	1.0040	.9998	1.0019	1.0012	1.0009	.9976	.9987	.9998
20		1.0026	1.0011		.9996	.9982	.9948	1.0050	1.0002	1.0023	1.0037	.9991	.9980	.9980	1.0002
21		.9959	.9995		1.0014	.9990		1.0034	.9999	1.0021	1.0033	.9999	.9988	.9988	1.0010
MEAN		1.0003	1.0001		1.0009	.9985	.9944	1.0050	1.0000	1.0023	1.0004	1.0009	.9987	.9982	1.0002
S.D.		.0020	.0009		.0006	.0004	.0014	.0014	.0006	.0006	.0007	.0010	.0006	.0005	.0005

MEAN	S.D.
916.10	2.361
916.68	3.156
916.13	2.876
916.72	2.771
918.29	2.920
923.17	2.534
924.40	2.041
924.52	2.280
924.46	2.609
923.66	2.360
922.85	2.150
922.77	2.129
921.58	2.086
922.61	2.647
923.17	2.000
923.15	2.174
921.33	2.337
922.95	2.125
926.19	2.265
925.83	2.367
925.09	1.750

TABLE 1-10

FIRST INTERCOMPARISON - NOVEMBER 3, 1978
 RUN 10: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		1	2	4	5	7	13	15	17	18	19	20	21	23	24
1	11:37:00	951.5	947.6		950.3	948.6	946.0	943.3	948.0	952.0	951.2	951.0	950.0	949.0	950.0
2	11:37:30	951.5	948.0		950.3	948.6	945.0	942.0	948.0	952.0	950.8	951.0	949.0	948.0	949.0
3	11:38:00	951.5	949.5		950.3	947.7	945.0	942.3	948.0	951.0	950.8	951.0	949.0	948.0	949.0
4	11:38:30	951.5	949.1		950.3	947.7	944.0	942.3	947.0	951.0	950.2	950.0	948.0	947.0	949.0
5	11:39:00	946.6	949.0		950.3	947.7	944.5	942.7	948.0	950.0	947.8	951.0	949.0	948.0	949.0
6	11:39:30		949.9		951.1	949.4	946.0	944.6	949.0	951.0	949.8	952.0	950.0	949.0	950.0
7	11:40:00		949.9		952.0	948.6	946.0	948.5	950.0	950.0	940.3	953.0	950.0	949.0	950.0
8	11:40:30	951.5	945.2		950.3	949.4	947.0	946.6	950.0	952.0	948.3	955.0	951.0	950.0	951.0
9	11:41:00	947.6	947.4		952.9	951.1	947.0	947.2	951.0	954.0	952.8	954.0	952.0	951.0	952.0
10	11:41:30	953.5	950.8		953.8	951.1		945.0	951.0	953.0	952.3	954.0	952.0	950.0	952.0
11	11:42:00	954.5	951.7		952.9	952.8	948.0	949.2	952.0	954.0	952.2	955.0	953.0	952.0	953.0
12	11:42:30	953.5	949.5		953.8	950.3	949.0	946.9	949.0	953.0	951.8	952.0	951.0	949.0	951.0
13	11:43:00	957.4	951.5		952.9	952.8	946.0	945.9	951.0	955.0	953.6	954.0	953.0	952.0	953.0
14	11:43:30	961.4	949.6		954.7	952.0	949.0	945.6	952.0	956.0	952.4	956.0	953.0	952.0	954.0
15	11:44:00	961.4	950.3		954.7	952.0	949.0	943.0	952.0	955.0	952.8	956.0	953.0	952.0	953.0
16	11:44:30	953.5	951.0		953.8	952.8	949.0	944.0	952.0	955.0	954.0	956.0	954.0	952.0	953.0
17	11:45:00	956.4	959.1		953.8	951.1	949.0	943.0	951.0	954.0	951.6	955.0	952.0	951.0	953.0
18	11:45:30	954.5	948.7		952.9	950.3	948.0	941.4	950.0	953.0	949.8	954.0	951.0	951.0	952.0
19	11:46:00	952.5	949.7		952.9	951.1	947.0	943.3	950.0	953.0	952.3	953.0	951.0	950.0	952.0
20	11:46:30	958.4	950.7		954.7	952.0	947.0	944.3	951.0	954.0	951.6	955.0	952.0	951.0	953.0
21	11:47:00	952.5	952.9		955.5	952.8	948.0	945.3	952.0	955.0	954.0	956.0	953.0	952.0	954.0
1		1.0025	.9984		1.0012	.9995	.9967	.9939	.9988	1.0030	1.0022	1.0020	1.0009	.9999	1.0009
2		1.0030	.9993		1.0017	.9999	.9961	.9929	.9993	1.0035	1.0022	1.0024	1.0003	.9993	1.0003
3		1.0030	1.0008		1.0017	.9989	.9961	.9933	.9993	1.0024	1.0022	1.0024	1.0003	.9993	1.0003
4		1.0034	1.0009		1.0022	.9994	.9955	.9937	.9987	1.0029	1.0021	1.0019	.9997	.9987	1.0008
5		.9985	1.0011		1.0025	.9997	.9963	.9944	1.0000	1.0021	.9998	1.0032	1.0011	1.0000	1.0011
6			1.0006		1.0019	1.0001	.9965	.9950	.9997	1.0018	1.0005	1.0028	1.0007	.9997	1.0007
7			1.0010		1.0032	.9996	.9969	.9995	1.0011	1.0011	.9909	1.0043	1.0011	1.0001	1.0011
8		1.0018	.9952		1.0005	.9996	.9971	.9966	1.0002	1.0023	.9984	1.0055	1.0013	1.0002	1.0013
9		.9966	.9965		1.0022	1.0004	.9960	.9962	1.0002	1.0034	1.0021	1.0034	1.0013	1.0002	1.0013
10		1.0020	.9992		1.0024	.9995		.9931	.9994	1.0015	1.0008	1.0026	1.0005	.9984	1.0005
11		1.0022	.9993		1.0006	1.0005	.9955	.9967	.9997	1.0018	.9999	1.0028	1.0007	.9997	1.0007
12		1.0029	.9987		1.0032	.9995	.9982	.9959	.9982	1.0024	1.0011	1.0013	1.0003	.9982	1.0003
13		1.0055	.9993		1.0008	1.0007	.9935	.9934	.9988	1.0030	1.0015	1.0019	1.0009	.9998	1.0009
14		1.0089	.9965		1.0019	.9991	.9959	.9923	.9991	1.0033	.9995	1.0033	1.0001	.9991	1.0012
15		1.0092	.9976		1.0022	.9993	.9962	.9899	.9993	1.0025	1.0002	1.0035	1.0004	.9993	1.0004
16		1.0012	.9986		1.0016	1.0005	.9965	.9913	.9997	1.0028	1.0018	1.0039	1.0018	.9997	1.0007
17		1.0043	1.0071		1.0016	.9987	.9965	.9902	.9986	1.0018	.9993	1.0028	.9997	.9986	1.0007
18		1.0042	.9981		1.0025	.9998	.9974	.9904	.9995	1.0026	.9993	1.0037	1.0005	1.0005	1.0016
19		1.0020	.9991		1.0024	1.0005	.9962	.9923	.9994	1.0025	1.0018	1.0025	1.0004	.9994	1.0015
20		1.0068	.9987		1.0029	1.0001	.9949	.9920	.9991	1.0022	.9997	1.0033	1.0001	.9991	1.0012
21		.9999	1.0004		1.0031	1.0003	.9952	.9924	.9994	1.0026	1.0015	1.0036	1.0005	.9994	1.0015
MEAN		1.0031	.9994		1.0020	.9998	.9962	.9936	.9994	1.0025	1.0003	1.0030	1.0006	.9994	1.0009
S.D.		.0031	.0024		.0008	.0006	.0010	.0024	.0007	.0006	.0025	.0009	.0005	.0006	.0004

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MEAN	S.D.
949.12	2.454
948.71	2.758
948.70	2.628
948.24	2.700
947.97	2.305
949.32	2.093
948.94	3.232
949.79	2.577
950.77	2.603
951.54	2.416
952.33	1.938
950.75	2.049
952.16	3.195
952.90	3.844
952.63	4.186
952.31	3.066
952.31	3.862
950.50	3.364
950.60	2.790
951.90	3.539
952.54	2.959

TABLE 1-11

FIRST INTERCOMPARISON - NOVEMBER 3, 1978
 RUN 11: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	2	4	5	7	13	15	17	18	19	20	21	23	24
1	12:00:00	956.3	953.3		955.6	953.6	951.0		955.0	957.0	954.1	957.0	956.0	953.0	956.0
2	12:00:30	954.4	953.9		954.7	952.8	950.0		954.0	957.0	956.5	957.0	955.0	954.0	956.0
3	12:01:00	957.3	953.6		955.6	952.8	950.0		954.0	958.0	955.2	957.0	955.0	953.0	956.0
4	12:01:30	952.4	954.6		956.5	953.6	950.0		954.0	958.0	956.7	957.0	955.0	953.0	957.0
5	12:02:00	954.4	956.1		957.3	954.5	951.5		955.0	958.0	957.7	957.0	955.0	954.0	956.0
6	12:02:30	952.4	958.3		957.3	956.2	952.0		956.0	960.0	957.7	958.0	956.0	955.0	958.0
7	12:03:00	949.5	959.9		959.1	956.2	953.0		958.0	961.0	958.4	959.0	958.0	956.0	959.0
8	12:03:30	953.4	958.8		959.1	957.0	953.0		957.0	960.0	959.7	958.0	957.0	956.0	958.0
9	12:04:00	954.4	958.4		959.1	957.0	953.0		957.0	960.0	959.9	959.0	958.0	956.0	959.0
10	12:04:30	957.3	960.1		959.9	957.9	954.5		959.0	961.0	960.6	960.0	959.0	957.0	960.0
11	12:05:00	955.3	959.2		958.2	955.3	952.0		957.0	960.0	959.2	958.0	957.0	955.0	958.0
12	12:05:30	953.4	958.0		958.2	956.2	952.0		957.0	960.0	957.7	959.0	957.0	955.0	958.0
13	12:06:00	962.2	959.8		960.8	959.5	954.5		959.0	962.0	960.5	961.0	960.0	957.0	960.0
14	12:06:30	959.3	958.3		960.8	958.7	955.0		959.0	962.0	958.2	961.0	960.0	958.0	961.0
15	12:07:00	956.3	959.2		960.8	957.9	954.0		959.0	961.0	959.7	961.0	959.0	957.0	960.0
16	12:07:30	957.3	959.1		959.9	957.0	954.0		958.0	960.0	960.2	960.0	958.0	957.0	959.0
17	12:08:00	955.3	958.1		958.2	956.2	953.0		957.0	959.0	957.5	959.0	958.0	956.0	958.0
18	12:08:30	952.4	955.2		957.3	955.3	952.0		956.0	958.0	958.1	958.0	957.0	955.0	957.0
19	12:09:00	958.3	954.7		956.5	955.3	952.0		956.0	958.0	956.5	958.0	957.0	955.0	957.0
20	12:09:30	964.2	958.2		960.8	957.9	954.0		958.0	962.0	958.7	961.0	960.0	957.0	960.0
21	12:10:00	957.3	957.0		959.1	957.0	953.0		958.0	960.0	959.1	960.0	959.0	957.0	959.0
1		1.0016	.9984		1.0008	.9987	.9960		1.0002	1.0023	.9992	1.0023	1.0012	.9981	1.0012
2		.9998	.9993		1.0001	.9981	.9952		.9994	1.0025	1.0020	1.0025	1.0004	.9994	1.0015
3		1.0026	.9988		1.0008	.9979	.9950		.9992	1.0034	1.0004	1.0023	1.0002	.9981	1.0013
4		.9975	.9998		1.0018	.9987	.9950		.9991	1.0033	1.0020	1.0023	1.0002	.9981	1.0023
5		.9988	1.0006		1.0018	.9989	.9958		.9994	1.0026	1.0023	1.0015	.9994	.9984	1.0005
6		.9958	1.0020		1.0009	.9998	.9954		.9996	1.0038	1.0013	1.0017	.9996	.9985	1.0017
7		.9919	1.0028		1.0019	.9989	.9956		1.0008	1.0039	1.0012	1.0018	1.0008	.9987	1.0018
8		.9960	1.0016		1.0019	.9997	.9956		.9997	1.0029	1.0026	1.0008	.9997	.9987	1.0008
9		.9967	1.0009		1.0016	.9994	.9952		.9994	1.0025	1.0024	1.0015	1.0005	.9984	1.0015
10		.9984	1.0013		1.0011	.9990	.9955		1.0001	1.0022	1.0018	1.0012	1.0001	.9981	1.0012
11		.9983	1.0023		1.0012	.9982	.9948		1.0000	1.0031	1.0023	1.0010	1.0000	.9979	1.0010
12		.9964	1.0013		1.0015	.9994	.9950		1.0002	1.0034	1.0010	1.0023	1.0002	.9981	1.0013
13		1.0026	1.0001		1.0012	.9998	.9946		.9993	1.0024	1.0008	1.0014	1.0003	.9972	1.0003
14		1.0000	.9990		1.0016	.9994	.9955		.9997	1.0028	.9989	1.0018	1.0008	.9987	1.0018
15		.9975	1.0005		1.0021	.9991	.9951		1.0003	1.0024	1.0010	1.0024	1.0003	.9982	1.0013
16		.9990	1.0008		1.0017	.9987	.9955		.9997	1.0018	1.0020	1.0018	.9997	.9987	1.0007
17		.9982	1.0010		1.0011	.9990	.9957		.9999	1.0020	1.0004	1.0020	1.0009	.9988	1.0009
18		.9963	.9992		1.0014	.9993	.9959		1.0001	1.0022	1.0023	1.0022	1.0011	.9990	1.0011
19		1.0022	.9984		1.0003	.9991	.9956		.9998	1.0019	1.0003	1.0019	1.0008	.9988	1.0008
20		1.0051	.9988		1.0015	.9985	.9945		.9986	1.0028	.9994	1.0018	1.0007	.9976	1.0007
21		.9993	.9990		1.0012	.9990	.9948		1.0000	1.0021	1.0012	1.0021	1.0011	.9990	1.0011
MEAN		.9988	1.0003		1.0013	.9990	.9953		.9997	1.0027	1.0012	1.0018	1.0004	.9984	1.0012
S.D.		.0030	.0013		.0005	.0005	.0004		.0005	.0006	.0011	.0005	.0005	.0005	.0005

MEAN	S.D.
954.83	1.845
954.61	1.975
954.79	2.258
954.82	2.347
955.54	1.863
955.41	2.370
957.26	3.224
957.25	2.241
957.56	2.192
958.86	1.874
957.02	2.271
956.79	2.317
959.69	2.137
959.27	1.874
958.74	2.118
958.29	1.811
957.11	1.735
955.94	2.069
956.19	1.772
959.31	2.625
957.96	1.927

TABLE 1-12

FIRST INTERCOMPARISON - NOVEMBER 3, 1978
 RUN 12: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	2	4	5	7	13	15	17	18	19	20	21	23	24
1	12:30:00	948.9	950.9		953.7	949.2	948.0	956.3	952.0	954.0	952.8	954.0	952.0	950.0	953.0
2	12:30:30	949.9	951.1		952.8	949.2	947.0	955.7	951.0	953.0	954.2	953.0	952.0	949.0	952.0
3	12:31:00	945.0	950.1		951.1	946.6	945.0	953.4	949.0	951.0	951.9	950.0	950.0	948.0	950.0
4	12:31:30	944.0	949.1		951.1	946.6	944.0	953.7	948.0	950.0	950.5	950.0	949.0	947.0	950.0
5	12:32:00	941.1	947.7		948.5	945.0	942.0	950.2	947.0	948.0	948.5	948.0	947.0	945.0	947.0
6	12:32:30	948.9	949.8		952.8	950.0	947.0	956.9	951.0	953.0	951.9	952.0	952.0	949.0	952.0
7	12:33:00	951.9	949.6		952.0	949.2	946.0	955.7	950.0	952.0	951.4	951.0	951.0	948.0	951.0
8	12:33:30	953.8	950.4		952.0	948.3	946.0	956.0	950.0	953.0	951.1	951.0	951.0	948.0	951.0
9	12:34:30	951.9	950.4		953.7	950.0	947.0			953.0	951.2	952.0	951.0	949.0	952.0
10	12:35:00	950.9	953.8		955.4	951.7	949.0	956.3	951.0	956.0	955.3	954.0	953.0	951.0	954.0
11	12:35:30	949.9	951.7		953.7	950.0	947.0	956.9	953.0	954.0	952.4	952.0	952.0	950.0	952.0
12	12:36:00	950.9	948.4		951.1	947.5	945.0	955.7	952.0	951.0	950.0	950.0	950.0	947.0	950.0
13	12:36:30	951.9	949.1		951.1	947.5	944.5	953.7	949.0	950.0	949.8	949.0	949.0	947.0	950.0
14	12:38:30	944.0	948.9		952.0	948.3	946.0	952.4	949.0	951.0	951.2	951.0	950.0	945.0	949.0
15	12:39:00	952.8	950.7		952.0	949.2	946.0	952.7	951.0	953.0	950.7	951.0	951.0	949.0	952.0
16	12:39:30	950.9	951.9		952.0	949.2	948.0	954.0	950.0	953.0	952.1	950.0	951.0	948.0	951.0
17	12:40:00	948.9	953.0		954.6	950.9	948.0	954.4	952.0	955.0	955.5	954.0	953.0	950.0	954.0
18	12:40:30	954.8	950.7		952.8	950.0	951.0	957.3	952.0	954.0	952.6	952.0	951.0	950.0	952.0
19	12:42:30	954.8	956.2		956.3	953.4	951.0	953.4	955.0	958.0	957.7	955.0	955.0	953.0	956.0
20	12:43:00	953.8	955.4		956.3	953.4	951.0	957.9	955.0	957.0	956.4	956.0	955.0	953.0	956.0
21	12:43:30	952.8	956.5		956.3	953.4	944.0	959.5	955.0	957.0	956.2	956.0	955.0	953.0	956.0
1		.9969	.9989		1.0019	.9972	.9959	1.0046	1.0001	1.0022	1.0009	1.0022	1.0001	.9980	1.0011
2		.9983	.9995		1.0013	.9976	.9952	1.0044	.9994	1.0015	1.0028	1.0015	1.0005	.9973	1.0005
3		.9954	1.0008		1.0019	.9971	.9955	1.0043	.9997	1.0018	1.0027	1.0007	1.0007	.9986	1.0007
4		.9951	1.0004		1.0025	.9978	.9951	1.0053	.9993	1.0014	1.0019	1.0014	1.0003	.9982	1.0014
5		.9942	1.0012		1.0021	.9984	.9952	1.0039	1.0005	1.0015	1.0021	1.0015	1.0005	.9984	1.0005
6		.9975	.9985		1.0016	.9987	.9955	1.0059	.9997	1.0018	1.0007	1.0008	1.0008	.9976	1.0008
7		1.0012	.9989		1.0014	.9984	.9951	1.0053	.9993	1.0014	1.0008	1.0003	1.0003	.9972	1.0003
8		1.0031	.9995		1.0012	.9973	.9949	1.0054	.9991	1.0022	1.0002	1.0001	1.0001	.9970	1.0001
9		1.0009	.9994		1.0028	.9989	.9958			1.0021	1.0002	1.0010	1.0000	.9979	1.0010
10		.9976	1.0006		1.0023	.9984	.9956	1.0033	.9977	1.0030	1.0022	1.0009	.9998	.9977	1.0009
11		.9979	.9998		1.0019	.9980	.9949	1.0053	1.0012	1.0022	1.0005	1.0001	1.0001	.9980	1.0001
12		1.0010	.9984		1.0013	.9975	.9949	1.0061	1.0022	1.0012	1.0001	1.0001	1.0001	.9970	1.0001
13		1.0026	.9997		1.0018	.9981	.9949	1.0046	.9996	1.0007	1.0005	.9996	.9996	.9975	1.0007
14		.9947	.9998		1.0031	.9992	.9968	1.0035	.9999	1.0020	1.0023	1.0020	1.0010	.9957	.9999
15		1.0021	.9998		1.0012	.9983	.9949	1.0019	1.0001	1.0023	.9998	1.0001	1.0001	.9980	1.0012
16		1.0000	1.0011		1.0012	.9983	.9970	1.0033	.9991	1.0023	1.0013	.9991	1.0002	.9970	1.0002
17		.9962	1.0005		1.0021	.9983	.9952	1.0019	.9994	1.0026	1.0031	1.0015	1.0005	.9973	1.0015
18		1.0026	.9983		1.0005	.9976	.9986	1.0052	.9997	1.0018	1.0003	.9997	.9986	.9976	.9997
19		.9998	1.0013		1.0014	.9983	.9958	.9983	1.0000	1.0032	1.0028	1.0000	1.0000	.9979	1.0011
20		.9987	1.0003		1.0013	.9982	.9957	1.0029	.9999	1.0020	1.0014	1.0009	.9949	.9978	1.0009
21		.9981	1.0019		1.0017	.9987	.9888	1.0051	1.0003	1.0024	1.0016	1.0014	1.0003	.9982	1.0014
MEAN		.9988	.9999		1.0017	.9981	.9953	1.0040	.9998	1.0020	1.0013	1.0007	1.0002	.9976	1.0007
S.D.		.0028	.0010		.0006	.0006	.0017	.0018	.0009	.0006	.0010	.0008	.0005	.0006	.0005

MEAN	S.D.
951.91	2.406
951.53	2.352
949.31	2.549
948.69	2.758
946.54	2.625
951.26	2.446
950.67	2.306
950.89	2.590
951.01	1.882
953.18	2.297
951.89	2.405
949.89	2.616
949.35	2.277
949.06	2.659
950.86	1.925
950.85	1.803
952.56	2.421
952.32	2.068
954.99	1.949
955.09	1.872
954.67	3.679

TABLE 1-13

FIRST INTERCOMPARISON - NOVEMBER 3, 1978
 RUN 13: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	2	4	5	7	13	15	17	18	19	20	21	23	24
1	13:46:00	931.3	931.2	925.9	930.4	929.0	926.0	934.1	929.0	933.0	930.8	931.0	931.0	929.0	931.0
2	13:46:30	936.3	930.8	925.1	930.4	929.9	927.0	935.8	930.0	932.0	931.0	932.0	932.0	929.0	931.0
3	13:47:00	939.2	932.2	927.6	931.3	929.0	927.0	934.4	930.0	932.0	931.6	932.0	931.0	930.0	931.0
4	13:47:30	937.3	933.1	927.6	931.3	930.7	927.0	936.4	930.0	933.0	932.6	932.0	931.0	930.0	932.0
5	13:48:00	939.2	933.5	928.4	933.0	930.7	928.0	934.8	931.0	933.0	931.0	932.0	932.0	931.0	932.0
6	13:48:30	940.2	933.5	926.7	932.2	929.9	928.0	936.4	930.0	933.0	932.6	932.0	932.0	930.0	932.0
7	13:49:00	938.2	932.5	927.6	931.3	929.9	924.0	934.4	930.0	932.0	932.3	932.0	931.0	930.0	931.0
8	13:49:30	921.5	930.3	925.9	930.4	928.2	926.0	932.8	928.0	930.0	929.8	931.0	930.0	928.0	930.0
9	13:50:00	934.3	929.2	925.1	928.7	927.3	925.0	932.8	927.0	930.0	929.3	930.0	929.0	928.0	929.0
10	13:50:30	925.4	927.9	923.5	927.8	926.5	924.0	931.2	926.0	928.0	926.8	930.0	928.0	926.0	928.0
11	13:51:00	916.5	928.9	925.1	929.6	927.3	924.0	932.1	927.0	930.0	927.8	930.0	928.0	927.0	929.0
12	13:51:30	930.3	929.3	925.1	929.6	928.2	925.0	933.5	927.0	931.0	929.8	930.0	929.0	928.0	929.0
13	13:52:00	913.6	928.4	925.1	929.6	927.3	925.0	931.2	928.0	930.0	928.9	930.0	929.0	927.0	929.0
14	13:52:30	910.6	926.4	923.5	928.7	926.5	924.0	932.1	927.0	929.0	926.3	930.0	927.0	926.0	928.0
15	13:53:00	929.4	927.0	922.7	927.8	925.6	923.0	930.5	926.0	929.0	927.5	928.0	927.0	926.0	927.0
16	13:53:30	933.3	926.1	922.7	927.0	924.8	922.5	929.8	925.0	927.0	927.5	927.0	926.0	926.0	926.0
17	13:54:00	914.6	924.2	919.4	926.1	924.8	921.0	928.2	924.0	926.0	924.4	927.0	926.0	924.0	926.0
18	13:54:30	919.5	924.3	919.4	927.0	924.8	922.0	930.5	925.0	927.0	924.8	928.0	926.0	925.0	926.0
19	13:55:00	933.3	925.4	918.6	926.1	923.9	922.0	928.2	925.0	927.0	926.0	927.0	925.0	925.0	926.0
20	13:55:30	925.4	923.3	917.8	924.4	922.7	919.0	928.2	922.0	925.0	924.3	925.0	923.0	922.0	924.0
21	13:56:00	928.4	923.4	917.0	923.5	921.4	918.0	924.9	922.0	924.0	923.3	924.0	924.0	922.0	924.0
1		1.0012	1.0011	.9954	1.0002	.9987	.9955	1.0042	.9987	1.0030	1.0006	1.0009	1.0009	.9987	1.0009
2		1.0058	.9999	.9938	.9995	.9989	.9958	1.0053	.9991	1.0012	1.0001	1.0012	1.0012	.9980	1.0001
3		1.0085	1.0010	.9960	1.0000	.9975	.9954	1.0033	.9986	1.0007	1.0003	1.0007	.9997	.9986	.9997
4		1.0060	1.0015	.9955	.9996	.9989	.9949	1.0050	.9982	1.0014	1.0010	1.0003	.9992	.9982	1.0003
5		1.0076	1.0015	.9960	1.0010	.9985	.9956	1.0029	.9988	1.0010	.9988	.9999	.9999	.9988	.9999
6		1.0088	1.0016	.9943	1.0002	.9977	.9957	1.0047	.9978	1.0010	1.0006	1.0000	1.0000	.9978	1.0000
7		1.0076	1.0014	.9961	1.0002	.9986	.9923	1.0035	.9988	1.0009	1.0012	1.0009	.9998	.9988	.9998
8		.9922	1.0017	.9970	1.0018	.9995	.9971	1.0044	.9992	1.0014	1.0012	1.0025	1.0014	.9992	1.0014
9		1.0058	1.0003	.9959	.9998	.9983	.9958	1.0042	.9979	1.0012	1.0004	1.0012	1.0001	.9990	1.0001
10		.9982	1.0009	.9961	1.0008	.9994	.9967	1.0044	.9988	1.0010	.9997	1.0031	1.0010	.9988	1.0010
11		.9884	1.0017	.9976	1.0025	1.0000	.9964	1.0052	.9997	1.0029	1.0005	1.0029	1.0007	.9997	1.0018
12		1.0015	1.0004	.9959	1.0007	.9992	.9958	1.0049	.9979	1.0022	1.0009	1.0012	1.0001	.9990	1.0001
13		.9852	1.0012	.9977	1.0025	1.0000	.9975	1.0042	1.0008	1.0029	1.0017	1.0029	1.0018	.9997	1.0018
14		.9833	1.0003	.9972	1.0028	1.0005	.9978	1.0065	1.0010	1.0032	1.0002	1.0042	1.0010	.9999	1.0021
15		1.0027	1.0001	.9955	1.0010	.9986	.9958	1.0039	.9990	1.0023	1.0007	1.0012	1.0001	.9990	1.0001
16		1.0074	.9996	.9959	1.0006	.9982	.9957	1.0036	.9984	1.0006	1.0011	1.0006	.9995	.9995	.9995
17		.9898	1.0002	.9951	1.0023	1.0009	.9968	1.0046	1.0000	1.0022	1.0005	1.0033	1.0022	1.0000	1.0022
18		.9941	.9993	.9940	1.0022	.9998	.9968	1.0060	1.0001	1.0022	.9998	1.0033	1.0011	1.0001	1.0011
19		1.0083	.9998	.9924	1.0005	.9982	.9961	1.0028	.9993	1.0015	1.0004	1.0015	.9993	.9993	1.0004
20		1.0023	1.0000	.9941	1.0012	.9994	.9953	1.0053	.9986	1.0018	1.0011	1.0018	.9997	.9986	1.0008
21		1.0060	1.0006	.9937	1.0007	.9984	.9947	1.0022	.9991	1.0012	1.0005	1.0012	1.0012	.9991	1.0012
MEAN		1.0005	1.0007	.9955	1.0009	.9990	.9959	1.0043	.9990	1.0017	1.0005	1.0017	1.0005	.9990	1.0007
S.D.		.0083	.0007	.0014	.0010	.0009	.0011	.0011	.0009	.0008	.0006	.0012	.0009	.0006	.0008

MEAN	S.D.
930.20	2.285
930.88	2.919
931.31	2.983
931.71	2.833
932.11	2.746
932.04	3.357
931.16	3.207
928.71	2.805
928.91	2.536
927.08	2.095
927.31	3.728
928.92	2.232
927.29	4.328
926.08	4.982
926.89	2.187
926.48	2.713
923.98	3.539
924.95	3.038
925.61	3.239
923.29	2.623
922.85	2.805

TABLE 1-14

FIRST INTERCOMPARISON - NOVEMBER 3, 1978
 RUN 14: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		1	2	4	5	7	13	15	17	18	19	20	21	23	24
1	14:08:00	908.4	912.9	907.8	912.4	909.5	906.0		910.0	912.0	911.0	912.0	911.0	909.0	910.0
2	14:08:30	913.3	915.0	907.8	912.4	910.4	908.0	915.4	911.0	914.0	912.9	914.0	912.0	911.0	912.0
3	14:09:00	918.2	915.6	909.5	913.2	911.2	908.0	917.0	911.0	915.0	914.3	913.0	913.0	912.0	912.0
4	14:09:30	918.2	915.1	907.8	912.4	912.9	900.0	917.4	911.0	914.0	912.0	913.0	912.0	911.0	912.0
5	14:10:00	915.3	915.5	907.0	912.4	912.1	907.0	917.7	910.0	914.0	913.2	913.0	912.0	911.0	912.0
6	14:10:30	912.3	914.7	905.4	911.5	910.4	906.0	914.4	909.0	912.0	910.4	911.0	910.0	910.0	910.0
7	14:11:00	914.3	912.0	903.8	908.9	907.8	904.0	913.7	907.0	910.0	910.4	910.0	909.0	908.0	908.0
8	14:11:30	908.4	913.9	907.8	911.5	912.1	907.0	917.7	909.0	913.0	912.1	914.0	912.0	910.0	911.0
9	14:13:30	913.3	905.9	902.2	907.2	906.1	903.0	911.4	906.0	910.0	908.1	909.0	908.0	907.0	907.0
10	14:14:00	910.4	909.7	899.7	905.4	904.4	901.0	911.4	903.0	909.0	906.6	907.0	907.0	904.0	906.0
11	14:14:30	899.6	907.1	898.9	904.5	901.9	899.0	911.4	902.0	907.0	904.8	905.0	904.0	903.0	903.0
12	14:15:00	898.6	907.5	898.1	904.5	903.6	899.0	910.7	902.0	906.0	905.3	905.0	904.0	903.0	904.0
13	14:15:30	902.5	907.5	897.3	904.5	902.8	899.0	910.4	902.0	906.0	904.7	905.0	903.0	903.0	903.0
14	14:16:30	891.7	905.5	897.3	903.7	901.9	897.0	909.7	900.0	905.0	902.7	903.0	902.0	901.0	902.0
15	14:17:00	901.5	905.3	895.7	901.1	900.2	896.0	906.0	899.0	904.0	902.4	902.0	901.0	900.0	901.0
16	14:17:30	904.5	903.7	895.7	900.6	899.4	894.0	905.0	897.0	903.0	901.2	900.0	900.0	898.0	899.0
17	14:18:00	902.5	903.7	895.7	902.4	900.2	895.0	905.7	898.0	902.0	901.0	900.0	900.0	898.0	899.0
18	14:18:30	908.4	905.0	895.7	901.5	900.2	896.0	904.7	898.0	903.0	901.9	901.0	900.0	900.0	900.0
19	14:19:00	906.4	904.2	894.9	901.1	899.4	896.0	903.7	898.0	902.0	901.6	901.0	900.0	899.0	900.0
20	14:19:30	907.4	904.8	894.9	901.9	900.4	896.0	905.0	899.0	903.0	902.2	901.0	900.0	900.0	900.0
21	14:20:00	907.4	903.8	894.9	900.6	899.4	895.0	903.7	898.0	902.0	900.9	900.0	900.0	899.0	900.0
1		.9981	1.0030	.9975	1.0025	.9993	.9954		.9998	1.0020	1.0009	1.0020	1.0009	.9987	.9998
2		1.0013	1.0032	.9954	1.0003	.9981	.9955	1.0036	.9988	1.0021	1.0009	1.0021	.9999	.9988	.9999
3		1.0056	1.0028	.9951	1.0001	.9980	.9944	1.0043	.9977	1.0021	1.0013	.9999	.9999	.9988	.9988
4		1.0068	1.0033	.9954	1.0004	1.0009	.9868	1.0059	.9988	1.0021	.9999	1.0010	.9999	.9988	.9999
5		1.0033	1.0035	.9942	1.0001	.9998	.9942	1.0059	.9975	1.0019	1.0010	1.0008	.9997	.9986	.9997
6		1.0020	1.0046	.9944	1.0011	.9999	.9950	1.0043	.9983	1.0016	.9999	1.0005	.9994	.9994	.9994
7		1.0058	1.0032	.9942	.9998	.9986	.9944	1.0051	.9977	1.0010	1.0015	1.0010	.9999	.9988	.9988
8		.9967	1.0027	.9961	1.0001	1.0008	.9952	1.0069	.9974	1.0018	1.0038	1.0029	1.0007	.9985	.9996
9		1.0065	.9983	.9942	.9997	.9985	.9951	1.0044	.9984	1.0028	1.0007	1.0017	1.0006	.9995	.9995
10		1.0048	1.0040	.9930	.9993	.9982	.9944	1.0059	.9966	1.0033	1.0006	1.0011	1.0011	.9977	1.0000
11		.9955	1.0038	.9948	1.0009	.9961	.9948	1.0086	.9982	1.0037	1.0013	1.0015	1.0004	.9993	.9993
12		.9944	1.0042	.9919	1.0009	.9959	.9948	1.0078	.9982	1.0026	1.0018	1.0015	1.0004	.9993	1.0001
13		.9988	1.0043	.9930	1.0010	.9951	.9949	1.0075	.9982	1.0026	1.0012	1.0015	.9993	.9993	.9993
14		.9890	1.0043	.9952	1.0023	1.0003	.9949	1.0090	.9982	1.0038	1.0012	1.0015	1.0004	.9993	1.0004
15		1.0005	1.0047	.9940	1.0000	.9990	.9944	1.0055	.9977	1.0032	1.0015	1.0010	.9999	.9988	.9999
16		1.0049	1.0040	.9951	1.0006	.9953	.9933	1.0055	.9966	1.0032	1.0012	.9999	.9999	.9977	.9988
17		1.0025	1.0039	.9949	1.0024	1.0000	.9942	1.0061	.9975	1.0020	1.0009	.9997	.9997	.9975	.9986
18		1.0081	1.0043	.9940	1.0004	.9990	.9943	1.0040	.9966	1.0021	1.0009	.9999	.9988	.9988	.9988
19		1.0066	1.0041	.9937	1.0006	.9988	.9950	1.0035	.9972	1.0016	1.0012	1.0005	.9994	.9983	.9994
20		1.0070	1.0041	.9931	1.0009	.9992	.9943	1.0043	.9977	1.0021	1.0012	.9999	.9988	.9988	.9988
21		1.0079	1.0038	.9939	1.0003	.9990	.9941	1.0037	.9974	1.0018	1.0006	.9996	.9996	.9985	.9996
MEAN		1.0022	1.0035	.9945	1.0007	.9992	.9943	1.0056	.9978	1.0024	1.0010	1.0009	.9999	.9987	.9995
S.D.		.0052	.0013	.0011	.0009	.0009	.0018	.0017	.0008	.0007	.0005	.0009	.0006	.0006	.0005

MEAN	S.D.
910.16	2.006
912.09	2.302
913.07	2.806
912.06	4.355
912.30	2.980
910.51	2.615
909.06	3.072
911.40	2.848
907.44	2.962
906.04	3.436
903.66	3.448
903.66	3.472
903.62	3.252
901.61	4.305
901.09	2.969
900.07	3.263
900.23	2.977
901.10	3.457
900.52	3.106
901.11	3.370
900.33	3.322

TABLE 1-15

FIRST INTERCOMPARISON - NOVEMBER 3, 1978
 RUN 15: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		1	2	4	5	7	13	15	17	18	19	20	21	23	24
1	14:32:00	888.6	890.3	881.7	889.7	885.6	885.0		886.0	891.0	888.7	889.0	887.0	887.0	888.0
2	14:32:30	890.6	888.7	881.7	888.0	884.7	884.0		885.0	889.0	888.3	888.0	886.0	886.0	886.0
3	14:33:00	884.7	886.9	879.3	885.0	882.2	882.0		883.0	887.0	886.1	886.0	884.0	884.0	884.0
4	14:33:30	880.8	885.3	878.5	885.4	882.2	880.0		882.0	886.0	884.5	885.0	883.0	882.0	883.0
5	14:34:00	874.9	884.4	876.9	882.8	880.5	879.0		881.0	884.0	883.0	884.0	882.0	881.0	882.0
6	14:34:30	877.8	883.9	875.3	881.1	878.0	878.0		880.0	883.0	883.0	884.0	881.0	880.0	881.0
7	14:35:00	880.8	881.4	874.5	880.2	878.0	877.0		878.0	881.0	881.2	881.0	878.0	878.0	879.0
8	14:35:30	876.9	882.5	875.3	881.5	879.6	877.0		879.0	883.0	882.3	882.0	880.0	879.0	880.0
9	14:36:00	876.9	884.2	876.1	882.8	880.5	878.0		880.0	884.0	882.8	882.0	880.0	881.0	881.0
10	14:36:30	881.8	884.2	875.3	882.4	879.6	879.0		881.0	884.0	883.4	883.0	881.0	881.0	882.0
11	14:37:00	881.8	883.5	876.1	882.8	880.5	879.0		881.0	885.0	883.6	883.0	882.0	881.0	882.0
12	14:37:30	882.8	883.6	875.3	881.5	879.6	878.0		880.0	884.0	882.5	882.0	880.0	880.0	881.0
13	14:38:00	874.9	882.7	875.3	881.5	878.8	877.0		878.0	882.0	881.4	881.0	879.0	879.0	880.0
14	14:38:30	883.7	882.7	875.3	871.1	878.8	877.0		879.0	882.0	881.4	882.0	879.0	880.0	880.0
15	14:39:00	882.8	880.5	874.5	879.3	878.0	875.0		877.0	882.0	879.2	880.0	878.0	878.0	879.0
16	14:39:30	878.8	878.0	872.9	878.5	876.3	873.0		875.0	879.0	878.2	877.0	876.0	875.0	877.0
17	14:40:00	867.1	876.0	869.6	875.9	874.6	873.0		874.0	878.0	876.2	877.0	875.0	874.0	876.0
18	14:40:30	872.0	875.6	868.0	874.2	872.9	872.0		873.0	876.0	875.4	876.0	874.0	873.0	874.0
19	14:41:00	870.0	874.2	868.0	873.2	872.0	870.0		872.0	875.0	874.3	874.0	872.0	872.0	873.0
20	14:41:30	872.9	874.2	868.0	874.2	871.2	869.0		871.0	875.0	873.3	874.0	872.0	871.0	872.0
21	14:42:00	868.0	873.3	866.4	873.2	871.2	869.0		870.0	874.0	871.9	873.0	871.0	871.0	871.0
1		1.0013	1.0031	.9935	1.0025	.9978	.9972		.9983	1.0039	1.0013	1.0017	.9994	.9994	1.0005
2		1.0045	1.0023	.9945	1.0016	.9978	.9970		.9982	1.0027	1.0019	1.0016	.9993	.9993	.9993
3		1.0006	1.0031	.9945	1.0009	.9978	.9975		.9987	1.0032	1.0022	1.0021	.9998	.9998	.9998
4		.9976	1.0027	.9950	1.0028	.9992	.9967		.9990	1.0035	1.0018	1.0024	1.0001	.9990	1.0001
5		.9929	1.0036	.9951	1.0018	.9992	.9975		.9998	1.0032	1.0021	1.0032	1.0009	.9998	1.0009
6		.9970	1.0039	.9941	1.0007	.9972	.9972		.9995	1.0029	1.0029	1.0040	1.0006	.9995	1.0006
7		1.0020	1.0026	.9948	1.0013	.9988	.9976		.9988	1.0022	1.0024	1.0022	.9988	.9988	.9999
8		.9966	1.0030	.9948	1.0019	.9997	.9958		.9990	1.0036	1.0028	1.0024	1.0002	.9990	1.0002
9		.9956	1.0040	.9948	1.0024	.9998	.9959		.9992	1.0037	1.0024	1.0015	.9992	1.0003	1.0003
10		1.0005	1.0032	.9931	1.0012	.9980	.9973		.9996	1.0030	1.0023	1.0019	.9996	.9996	1.0007
11		1.0002	1.0021	.9937	1.0013	.9987	.9970		.9993	1.0038	1.0022	1.0015	1.0004	.9993	1.0004
12		1.0022	1.0032	.9938	1.0008	.9987	.9968		.9991	1.0036	1.0019	1.0014	.9991	.9991	1.0002
13		.9950	1.0039	.9955	1.0025	.9995	.9974		.9985	1.0031	1.0024	1.0020	.9997	.9997	1.0008
14		1.0050	1.0038	.9953	.9906	.9993	.9973		.9996	1.0030	1.0023	1.0030	.9996	1.0007	1.0007
15		1.0046	1.0020	.9952	1.0007	.9992	.9958		.9981	1.0037	1.0006	1.0015	.9992	.9992	1.0003
16		1.0026	1.0017	.9958	1.0023	.9998	.9960		.9983	1.0028	1.0019	1.0006	.9994	.9983	1.0006
17		.9917	1.0019	.9946	1.0018	1.0003	.9985		.9996	1.0042	1.0021	1.0030	1.0008	.9996	1.0019
18		.9982	1.0024	.9937	1.0007	.9993	.9982		.9994	1.0028	1.0021	1.0028	1.0005	.9994	1.0005
19		.9974	1.0022	.9951	1.0010	.9997	.9974		.9997	1.0031	1.0023	1.0020	.9997	.9997	1.0008
20		1.0009	1.0024	.9953	1.0024	.9989	.9964		.9987	1.0033	1.0013	1.0021	.9998	.9987	.9998
21		.9966	1.0026	.9947	1.0025	1.0002	.9977		.9988	1.0034	1.0010	1.0023	1.0000	1.0000	1.0000
	MEAN	.9992	1.0028	.9946	1.0011	.9990	.9972		.9990	1.0033	1.0020	1.0021	.9998	.9994	1.0004
	S.D.	.0038	.0007	.0007	.0025	.0009	.0006		.0005	.0005	.0006	.0008	.0006	.0006	.0005

MEAN	S.D.
887.51	2.514
886.62	2.425
884.17	2.181
882.90	2.286
881.19	2.835
880.47	2.651
879.08	2.074
879.85	2.409
880.71	2.549
881.36	2.406
881.64	2.270
880.79	2.386
879.28	2.487
879.39	3.418
878.71	2.395
876.52	2.072
874.34	3.021
873.55	2.179
872.29	2.007
872.14	2.091
871.00	2.214

FIRST INTERCOMPARISON - NOVEMBER 2,3, 1978
SUMMARY OF EACH INSTRUMENT RELATIVE TO MEAN OF ALL INSTRUMENTS

RUN NO.	-----INSTRUMENT IDENTIFICATION NUMBER-----													
	1	2	4	5	7	13	15	17	18	19	20	21	23	24
1	1.0027	.9991	.9945	1.0015	.9992	.9970	1.0048	.9983	1.0029	1.0006	1.0013	1.0002	.9975	1.0003
2	1.0019	1.0012	.9954	1.0006	.9981	.9933	1.0046	.9996	1.0044	.9999	1.0008	.9983	.9979	.9989
3	.9991	.9987	.9996	1.0010	.9988	.9956	1.0047	1.0006	1.0012	1.0002	1.0020	1.0000	.9987	.9997
4	1.0016	1.0037	.9966	.9992	.9969	.9968	1.0048	.9980	1.0028	1.0000	1.0013	1.0001	.9985	.9996
5	1.0022	1.0038	.9946	1.0023	.9999	.9983		.9997	1.0013	.9943	1.0025	1.0008	.9987	1.0007
6	1.0044	1.0002	.9941	.9989	.9996	.9989	1.0054	1.0000	1.0048	.9908	1.0031	1.0006	.9989	1.0005
7	1.0015	.9982	.9941	1.0006	.9994	.9973	1.0076	1.0004	1.0028	.9953	1.0029	1.0001	.9990	1.0006
8	1.0004	1.0009	.9974	1.0006	.9979		1.0057	.9985	1.0005	.9990	1.0007	.9994	.9990	1.0000
9	1.0003	1.0001		1.0009	.9985	.9944	1.0050	1.0000	1.0023	1.0004	1.0009	.9987	.9982	1.0002
10	1.0031	.9994		1.0020	.9998	.9962	.9936	.9994	1.0025	1.0003	1.0030	1.0006	.9994	1.0009
11	.9988	1.0003		1.0013	.9990	.9953		.9997	1.0027	1.0012	1.0018	1.0004	.9984	1.0012
12	.9988	.9999		1.0017	.9981	.9953	1.0040	.9998	1.0020	1.0013	1.0007	1.0002	.9976	1.0007
13	1.0005	1.0007	.9955	1.0009	.9990	.9959	1.0043	.9990	1.0017	1.0005	1.0017	1.0005	.9990	1.0007
14	1.0022	1.0035	.9946	1.0007	.9992	.9943	1.0056	.9978	1.0024	1.0010	1.0009	.9999	.9987	.9995
15	.9992	1.0028	.9946	1.0011	.9990	.9972		.9990	1.0033	1.0020	1.0021	.9998	.9994	1.0004
MEAN	1.0011	1.0008	.9955	1.0009	.9988	.9965	1.0042	.9993	1.0025	.9991	1.0017	1.0000	.9986	1.0003
S.D.	.0017	.0018	.0017	.0009	.0008	.0014	.0035	.0009	.0011	.0031	.0009	.0007	.0006	.0006

Second Intercomparison - May 2-3, 1979

TABLE 2- 1

SECOND INTERCOMPARISON - MAY 2, 1979
 RUN 1: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----												MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24		
1	09:40:00	943.8	942.8	941.3	944.4	947.5	943.9	940.0	944.0	943.0	943.0		941.0	943.15	2.008
2	09:40:30	944.7	942.1	940.5	944.4	945.5	943.8	939.0	944.0	942.5	942.0		940.0	942.59	2.103
3	09:41:00	943.8	941.8	940.5	944.4	945.5	943.3	940.0	943.0	942.1	943.0		940.0	942.49	1.805
4	09:41:30	943.8	941.2	940.5	944.4	945.5	943.0	940.0	943.0	941.8	941.0		939.0	942.11	2.001
5	09:42:00	943.8	941.7	940.5	943.6	945.5	943.5	940.0	943.0	942.2	943.0		939.0	942.35	1.907
6	09:42:30	945.6	942.6	942.1	945.9	948.5	944.5	942.0	944.0	942.7	943.0		940.0	943.72	2.325
7	09:43:00	945.6	944.4	943.0	945.9	948.5	945.5	941.0	945.0	944.0	942.0		942.0	944.26	2.169
8	09:43:30	946.4	944.4	942.1	947.4	948.5	946.1	941.0	945.0	945.9	944.0		942.0	944.80	2.373
9	09:44:00	947.3	944.0	943.0	947.4	950.5	946.6	942.0	945.0	944.6	946.0		943.0	945.40	2.475
10	09:44:30	946.4	944.5	944.3	947.4	950.5	946.2	943.0	947.0	945.2	945.0		944.0	945.77	2.065
11	09:45:00	946.4	944.3	943.8	947.4	949.5	946.2	942.0	947.0	944.9	944.0		944.0	945.41	2.110
12	09:45:30	947.3	945.0	944.3	947.4	952.6	946.7	942.0	947.0	945.2	944.0		944.0	945.95	2.779
13	09:46:00	948.2	944.8	944.7	948.1	952.6	947.6	942.0	947.0	945.5	944.0		944.0	946.23	2.884
14	09:46:30	949.0	946.0	945.5	950.3	953.6	947.9	944.0	948.0	946.7	946.0		945.0	947.45	2.745
15	09:47:00	949.0	946.8	946.4	950.3	954.6	947.9	944.0	949.0	947.3	946.0		946.0	947.94	2.816
16	09:47:30	950.8	946.8	946.4	951.8	954.6	949.4	944.0	949.0	948.0	946.0		946.0	948.44	3.077
17	09:48:00	950.8	947.7	948.1	951.8	955.6	950.3	946.0	949.0	943.7	948.0		947.0	948.91	3.175
18	09:48:30	951.6	948.3	948.1	952.6	956.6	951.1	946.0	950.0	949.3	949.0		948.0	950.05	2.864
19	09:49:00	952.5	949.2	948.9	953.3	956.6	952.2	947.0	951.0	950.0	949.0		948.0	950.70	2.775
20	09:49:30	953.4	950.4	949.8	954.1	956.6	952.8	948.0	952.0	950.5	951.0		949.0	951.60	2.491
21	09:50:00	953.4	950.7	950.6	954.1		952.6	949.0	952.0	951.3	951.0		950.0	951.47	1.566
1		1.0007	.9996	.9980	1.0013	1.0046	1.0008	.9967	1.0009	.9998	.9998		.9977		
2		1.0022	.9995	.9978	1.0019	1.0031	1.0013	.9962	1.0015	.9999	.9994		.9973		
3		1.0014	.9993	.9979	1.0020	1.0032	1.0009	.9974	1.0005	.9996	1.0005		.9974		
4		1.0018	.9990	.9983	1.0024	1.0036	1.0009	.9978	1.0009	.9997	.9988		.9967		
5		1.0015	.9993	.9980	1.0013	1.0033	1.0012	.9975	1.0007	.9998	1.0007		.9964		
6		1.0020	.9988	.9983	1.0023	1.0051	1.0008	.9982	1.0003	.9989	.9992		.9961		
7		1.0014	1.0001	.9987	1.0017	1.0045	1.0013	.9965	1.0008	.9997	.9976		.9976		
8		1.0017	.9996	.9971	1.0028	1.0039	1.0014	.9960	1.0002	1.0012	.9992		.9970		
9		1.0020	.9985	.9975	1.0021	1.0054	1.0013	.9964	.9996	.9992	1.0006		.9975		
10		1.0007	.9987	.9984	1.0017	1.0050	1.0005	.9971	1.0013	.9994	.9992		.9981		
11		1.0010	.9988	.9983	1.0021	1.0043	1.0008	.9964	1.0017	.9995	.9985		.9985		
12		1.0014	.9990	.9983	1.0015	1.0070	1.0008	.9958	1.0011	.9992	.9979		.9979		
13		1.0021	.9985	.9984	1.0020	1.0067	1.0015	.9955	1.0008	.9992	.9976		.9976		
14		1.0016	.9985	.9979	1.0030	1.0065	1.0005	.9964	1.0006	.9992	.9985		.9974		
15		1.0011	.9988	.9984	1.0025	1.0070	1.0000	.9958	1.0011	.9993	.9980		.9980		
16		1.0025	.9983	.9979	1.0035	1.0065	1.0010	.9952	1.0006	.9995	.9974		.9974		
17		1.0020	.9987	.9991	1.0030	1.0071	1.0015	.9965	1.0001	.9995	.9990		.9980		
18		1.0016	.9982	.9979	1.0027	1.0069	1.0011	.9957	.9992	.9992	.9989		.9978		
19		1.0019	.9984	.9981	1.0027	1.0062	1.0016	.9961	1.0003	.9993	.9982		.9972		
20		1.0019	.9987	.9981	1.0026	1.0053	1.0013	.9962	1.0004	.9988	.9994		.9973		
21		1.0020	.9992	.9991	1.0028		1.0012	.9974	1.0006	.9998	.9995		.9985		
MEAN		1.0017	.9989	.9982	1.0023	1.0053	1.0010	.9965	1.0007	.9993	.9990		.9975		
S.D.		.0005	.0005	.0005	.0006	.0014	.0004	.0008	.0005	.0012	.0010		.0006		

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TABLE 2- 2

SECOND INTERCOMPARISON - MAY 2, 1979
 RUN 2: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----											MEAN	S.D.	
		5	6	7	8	11	13	17	18	19	20	22			24
1	10:02:00	952.9	952.1	949.7	954.9	958.6	954.0	950.0	953.0		953.0		951.0	952.92	2.595
2	10:02:30	953.7	952.2	949.7	955.7	956.5	954.3	951.0	953.0		954.0		951.0	953.11	2.164
3	10:03:00	953.7	953.1	950.6	955.7	955.5	955.3	952.0	954.0		955.0		952.0	953.69	1.743
4	10:03:30	954.6	953.8	951.4	957.2	956.5	956.2	953.0	955.0		956.0		953.0	954.67	1.856
5	10:04:00	954.6	953.9	951.4	957.9	956.5	956.0	953.0	955.0		955.0		953.0	954.63	1.904
6	10:04:30	954.6	954.4	951.4	957.2	957.5	956.6	953.0	956.0		956.0		954.0	955.07	1.946
7	10:05:00	955.5	954.5	952.3	957.9	958.6	956.8	953.0	956.0		957.0		954.0	955.56	2.089
8	10:05:30	955.5	954.4	952.3	957.9	960.6	956.6	953.0	957.0		957.0		954.0	955.83	2.502
9	10:06:00	955.5	954.9	952.3	957.2	959.6	956.9	953.0	956.0		957.0		954.0	955.64	2.187
10	10:06:30	954.6	954.2	952.3	957.7	959.6	957.1	953.0	957.0		957.0		955.0	955.75	2.293
11	10:07:00	955.5	954.3	952.3	957.9	960.6	957.0	953.0	957.0		956.0		954.0	955.76	2.495
12	10:07:30	954.6	954.1	952.3	957.2	961.6	956.7	952.0	957.0		955.0		954.0	955.45	2.819
13	10:08:00	955.5	954.5	952.3	957.9	960.6	956.8	952.0	956.0		955.0		954.0	955.46	2.575
14	10:08:30	955.5	953.7	952.3	956.4	960.6	956.4	952.0	956.0		955.0		954.0	955.19	2.475
15	10:09:00	954.6	953.0	951.4	957.2	959.6	955.9	952.0	955.0		954.0		953.0	954.57	2.496
16	10:09:30	953.7	951.5	950.6	955.7	957.5	954.8	950.0	953.0		954.0		952.0	953.28	2.345
17	10:10:00	953.7	952.0	950.6	955.7	958.6	954.9	950.0	954.0		954.0		952.0	953.55	2.549
18	10:10:30	954.6	952.8	951.4	956.4	959.6	955.5	951.0	955.0		954.0		954.0	954.43	2.496
19	10:11:00	954.6	952.9	952.3	957.2	958.6	955.8	952.0	955.0		955.0		954.0	954.74	2.098
20	10:11:30	953.7	952.8	951.4	956.4	958.6	955.7	952.0	956.0		954.0		954.0	954.46	2.211
21	10:12:00	953.7	952.5	951.4	956.4	958.6	955.4	951.0	955.0		954.0		953.0	954.10	2.330
1		1.0000	.9991	.9966	1.0021	1.0060	1.0011	.9969	1.0001		1.0001		.9980		
2		1.0006	.9990	.9964	1.0027	1.0036	1.0012	.9978	.9999		1.0009		.9978		
3		1.0000	.9994	.9968	1.0021	1.0019	1.0017	.9982	1.0003		1.0014		.9982		
4		.9999	.9991	.9966	1.0027	1.0019	1.0016	.9983	1.0003		1.0014		.9983		
5		1.0000	.9992	.9966	1.0034	1.0020	1.0014	.9983	1.0004		1.0004		.9983		
6		.9995	.9993	.9962	1.0022	1.0025	1.0016	.9978	1.0010		1.0010		.9989		
7		.9999	.9989	.9966	1.0024	1.0032	1.0013	.9973	1.0005		1.0015		.9984		
8		.9997	.9985	.9963	1.0022	1.0050	1.0008	.9970	1.0012		1.0012		.9981		
9		.9999	.9992	.9965	1.0016	1.0041	1.0013	.9972	1.0004		1.0014		.9983		
10		.9988	.9984	.9964	1.0020	1.0040	1.0014	.9971	1.0013		1.0013		.9992		
11		.9997	.9985	.9964	1.0022	1.0051	1.0013	.9971	1.0013		1.0003		.9982		
12		.9991	.9986	.9967	1.0018	1.0064	1.0013	.9964	1.0016		.9995		.9985		
13		1.0000	.9990	.9967	1.0026	1.0054	1.0014	.9964	1.0006		.9995		.9985		
14		1.0003	.9984	.9970	1.0013	1.0057	1.0013	.9967	1.0008		.9998		.9988		
15		1.0000	.9984	.9967	1.0028	1.0053	1.0014	.9973	1.0005		.9994		.9984		
16		1.0004	.9981	.9972	1.0025	1.0044	1.0016	.9966	.9997		1.0008		.9987		
17		1.0002	.9984	.9969	1.0023	1.0053	1.0014	.9963	1.0005		1.0005		.9984		
18		1.0002	.9983	.9968	1.0021	1.0054	1.0011	.9964	1.0006		.9995		.9995		
19		.9999	.9981	.9974	1.0026	1.0040	1.0011	.9971	1.0003		1.0003		.9992		
20		.9992	.9983	.9968	1.0020	1.0043	1.0013	.9974	1.0016		.9995		.9995		
21		.9996	.9983	.9972	1.0024	1.0047	1.0014	.9968	1.0009		.9999		.9988		
	MEAN	.9999	.9987	.9967	1.0023	1.0043	1.0013	.9972	1.0007		1.0005		.9986		
	S.D.	.0004	.0004	.0003	.0004	.0014	.0002	.0006	.0005		.0007		.0005		

TABLE 2- 3

SECOND INTERCOMPARISON - MAY 2, 1979
 RUN 3: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----											MEAN	S.D.	
		5	6	7	8	11	13	17	18	19	20	22			24
1	10:22:00	958.7	958.3	955.7	961.1	963.2	959.2	955.0	961.0	959.0	957.0		958.0	958.75	2.405
2	10:22:30	961.3	960.3	958.2	964.1	966.2	961.3	957.0	962.0	960.8	961.0		959.0	961.02	2.573
3	10:23:00	962.1	961.8	959.0	965.6	967.2	963.1	960.0	963.0	962.2	962.0		961.0	962.45	2.324
4	10:23:30	964.7	962.8	959.9	966.3	968.2	964.0	960.0	964.0	963.5	962.0		962.0	963.40	2.489
5	10:24:00	963.9	962.5	959.0	966.3	967.2	963.4	960.0	963.0	962.5	962.0		962.0	962.89	2.385
6	10:24:30	966.5	964.9	962.4	968.6	969.2	966.3	962.0	965.0	964.8	966.0		964.0	965.43	2.244
7	10:25:00	965.6	963.2	961.6	967.1	968.2	965.8	962.0	965.0	964.1	965.0		963.0	964.60	2.062
8	10:25:30	967.3	965.4	963.3	969.3	970.2	966.8	963.0	966.0	966.0	967.0		965.0	966.30	2.203
9	10:26:00	967.3	966.2	964.1	970.1	971.3	968.2	965.0	968.0	967.3	968.0		966.0	967.41	2.096
10	10:26:30	967.3	966.4	964.1	970.1	970.2	968.2	964.0	968.0	967.3	967.0		966.0	967.15	2.025
11	10:27:00	965.6	965.4	962.8	969.3	970.2	967.1	964.0	968.0	966.7	965.0		965.0	966.28	2.239
12	10:27:30	964.7	964.2	961.6	968.6	970.2	965.7	962.0	967.0	965.1	964.0		964.0	965.19	2.596
13	10:28:00	965.6	964.5	961.6	968.6	969.2	965.7	963.0	966.0	965.2	965.0		964.0	965.31	2.197
14	10:28:30	965.6	964.8	962.4	968.6	969.2	965.8	963.0	966.0	964.8	964.0		964.0	965.29	2.110
15	10:29:00	965.6	964.0	961.6	967.1	967.2	965.5	963.0	964.0	964.3	964.0		963.0	964.48	1.731
16	10:29:30	965.6	965.1	962.4	968.6	968.2	965.8	963.0	965.0	964.8	966.0		964.0	965.32	1.895
17	10:30:00	968.2	966.9	963.4	970.8	972.3	967.9	965.0	969.0	968.0	967.0		967.0	967.77	2.453
18	10:30:30	969.1	968.3	965.8	971.6	973.3	969.3	966.0	969.0	968.8	969.0		967.0	968.84	2.210
19	10:31:00	971.7	970.0	967.5	973.1	974.3	971.0	969.0	971.0	970.2	970.0		969.0	970.62	1.926
20	10:31:30	970.8	969.4	966.6	972.3	974.3	971.0	969.0	971.0	970.6	970.0		969.0	970.36	1.981
21	10:32:00	969.1	967.5	965.8	970.8	971.3	969.6	967.0	969.0	963.6	969.0		968.0	968.70	1.599
1		1.0000	.9995	.9968	1.0025	1.0046	1.0005	.9961	1.0024	1.0003	.9982		.9992		
2		1.0003	.9993	.9971	1.0032	1.0034	1.0003	.9958	1.0010	.9998	1.0000		.9979		
3		.9996	.9993	.9964	1.0033	1.0049	1.0007	.9974	1.0006	.9997	.9995		.9985		
4		1.0013	.9994	.9964	1.0030	1.0050	1.0006	.9965	1.0006	1.0001	.9985		.9985		
5		1.0010	.9996	.9960	1.0035	1.0045	1.0005	.9970	1.0001	.9996	.9991		.9991		
6		1.0011	.9995	.9969	1.0033	1.0039	1.0009	.9964	.9996	.9994	1.0006		.9985		
7		1.0010	.9985	.9969	1.0026	1.0037	1.0012	.9973	1.0004	.9995	1.0004		.9983		
8		1.0010	.9991	.9969	1.0031	1.0040	1.0005	.9966	.9997	.9997	1.0007		.9987		
9		.9999	.9988	.9966	1.0028	1.0040	1.0008	.9975	1.0006	.9999	1.0006		.9985		
10		1.0002	.9992	.9969	1.0031	1.0032	1.0011	.9967	1.0009	1.0002	.9998		.9988		
11		.9993	.9991	.9964	1.0031	1.0041	1.0008	.9976	1.0018	1.0004	.9987		.9987		
12		.9995	.9990	.9963	1.0035	1.0052	1.0005	.9967	1.0019	.9999	.9988		.9988		
13		1.0003	.9992	.9962	1.0034	1.0040	1.0004	.9976	1.0007	.9999	.9997		.9986		
14		1.0003	.9995	.9970	1.0034	1.0040	1.0005	.9976	1.0007	.9995	.9987		.9987		
15		1.0012	.9995	.9970	1.0027	1.0028	1.0011	.9985	.9995	.9998	.9995		.9985		
16		1.0003	.9998	.9970	1.0034	1.0030	1.0005	.9976	.9997	.9995	1.0007		.9986		
17		1.0004	.9991	.9955	1.0031	1.0047	1.0001	.9971	1.0013	1.0002	.9992		.9992		
18		1.0003	.9994	.9969	1.0029	1.0046	1.0005	.9971	1.0002	1.0000	1.0002		.9981		
19		1.0011	.9994	.9968	1.0026	1.0038	1.0004	.9983	1.0004	.9996	.9994		.9983		
20		1.0004	.9990	.9961	1.0020	1.0041	1.0007	.9986	1.0007	1.0002	.9996		.9986		
21		1.0004	.9988	.9970	1.0022	1.0027	1.0009	.9982	1.0003	.9999	1.0003		.9993		
	MEAN	1.0004	.9992	.9966	1.0030	1.0041	1.0006	.9973	1.0006	.9999	.9996		.9986		
	S.D.	.0006	.0003	.0004	.0004	.0008	.0003	.0008	.0008	.0003	.0008		.0003		

TABLE 2- 4

SECOND INTERCOMPARISON - MAY 2, 1979
 RUN 4: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----												MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24		
1	10:43:00	967.0	965.8	962.8	967.8		966.9	963.0	969.0		965.0		964.0	965.70	2.166
2	10:43:30	967.0	965.0	962.4	968.6		966.5	962.0	968.0		964.0		964.0	965.28	2.379
3	10:44:00	967.8	965.7	963.7	968.6		967.0	964.0	968.0		965.0		965.0	966.09	1.813
4	10:44:30	968.7	967.6	965.4	970.1		968.8	966.0	970.0		966.0		966.0	967.62	1.843
5	10:45:00	969.6	967.4	964.5	970.1		969.1	966.0	969.0		967.0		966.0	967.63	1.923
6	10:45:30	966.1	963.6	962.0	965.6		967.4	964.0	967.0		966.0		964.0	965.08	1.776
7	10:46:00	965.2	963.1	960.3	965.6		965.1	962.0	964.0		965.0		962.0	963.59	1.844
8	10:46:30	966.1	964.4	962.8	966.3		966.4	963.0	966.0		965.0		964.0	964.89	1.412
9	10:47:00	967.0	966.1	964.1	967.1		968.0	964.0	968.0		968.0		965.0	966.37	1.644
10	10:47:30	967.0	965.3	963.3	967.8		967.7	964.0	968.0		967.0		965.0	966.12	1.760
11	10:48:00	967.8	965.9	963.7	967.8		967.7	965.0	969.0		967.0		965.0	966.54	1.732
12	10:48:30	967.8	965.5	962.8	967.8		968.0	965.0	968.0		967.0		965.0	966.32	1.838
13	10:49:00	965.2	963.6	961.2	965.6		965.1	963.0	966.0		964.0		962.0	963.97	1.666
14	10:49:30	966.1	963.9	962.0	965.6		965.8	963.0	967.0		966.0		964.0	964.82	1.663
15	10:50:00	966.1	963.9	962.0	965.6		965.5	962.0	966.0		965.0		963.0	964.34	1.664
16	10:50:30	965.2	963.7	962.0	964.8		965.7	962.0	966.0		965.0		963.0	964.16	1.535
17	10:51:00	967.0	966.5	964.5	967.8		968.3	965.0	969.0		967.0		966.0	966.79	1.476
18	10:51:30	967.8	966.5	964.5	967.8		968.3	965.0	970.0		967.0		965.0	966.88	1.814
19	10:52:00	968.7	967.4	965.4	969.3		968.9	965.0	969.0		968.0		966.0	967.52	1.660
20	10:52:30	971.3	969.0	967.1	971.6		970.6	967.0	972.0		970.0		968.0	969.62	1.928
21	10:53:00	971.3	969.0	967.1	970.8		970.9	967.0	971.0		970.0		968.0	969.46	1.728
1		1.0013	1.0001	.9970	1.0022		1.0012	.9972	1.0034		.9993		.9982		
2		1.0018	.9997	.9970	1.0034		1.0013	.9966	1.0028		.9987		.9987		
3		1.0018	.9996	.9975	1.0026		1.0009	.9978	1.0020		.9989		.9989		
4		1.0011	1.0000	.9977	1.0026		1.0012	.9983	1.0025		.9983		.9983		
5		1.0020	.9998	.9968	1.0025		1.0015	.9983	1.0014		.9993		.9983		
6		1.0011	.9985	.9968	1.0005		1.0024	.9989	1.0020		1.0010		.9989		
7		1.0017	.9995	.9966	1.0021		1.0016	.9984	1.0004		1.0015		.9984		
8		1.0013	.9995	.9978	1.0015		1.0016	.9980	1.0012		1.0001		.9991		
9		1.0007	.9997	.9977	1.0008		1.0017	.9976	1.0017		1.0017		.9986		
10		1.0009	.9991	.9971	1.0017		1.0016	.9978	1.0019		1.0009		.9988		
11		1.0013	.9993	.9971	1.0013		1.0012	.9984	1.0025		1.0005		.9984		
12		1.0015	.9991	.9964	1.0015		1.0017	.9986	1.0017		1.0007		.9986		
13		1.0013	.9996	.9971	1.0017		1.0012	.9990	1.0021		1.0000		.9980		
14		1.0013	.9990	.9971	1.0008		1.0010	.9981	1.0023		1.0012		.9991		
15		1.0018	.9995	.9976	1.0013		1.0012	.9976	1.0017		1.0007		.9986		
16		1.0011	.9995	.9978	1.0007		1.0016	.9978	1.0019		1.0009		.9988		
17		1.0002	.9997	.9976	1.0010		1.0016	.9981	1.0023		1.0002		.9992		
18		1.0010	.9996	.9975	1.0010		1.0015	.9981	1.0032		1.0001		.9981		
19		1.0012	.9999	.9978	1.0018		1.0014	.9974	1.0015		1.0005		.9984		
20		1.0017	.9994	.9974	1.0020		1.0010	.9973	1.0025		1.0004		.9983		
21		1.0019	.9995	.9976	1.0014		1.0015	.9975	1.0016		1.0006		.9985		
MEAN		1.0013	.9995	.9973	1.0016		1.0014	.9979	1.0020		1.0003		.9986		
S.D.		.0004	.0004	.0004	.0008		.0003	.0006	.0007		.0009		.0003		

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TABLE 2- 5

SECOND INTERCOMPARISON - MAY 2, 1979
 RUN 5: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----											MEAN	S.D.	
		5	6	7	8	11	13	17	18	19	20	22			24
1	11:05:00	967.9	969.1	965.6	971.7		969.2	966.0	970.0		969.0		967.0	968.39	1.961
2	11:05:30	967.9	967.9	964.3	970.2		969.0	965.0	968.0		969.0		966.0	967.48	1.972
3	11:06:00	967.9	967.5	965.2	970.9		969.1	965.0	970.0		968.0		967.0	967.84	1.984
4	11:06:30	966.1	966.0	963.5	970.2		967.8	964.4	968.0		967.0		965.0	966.44	2.059
5	11:07:00	966.1	965.8	962.6	969.4		966.6	964.0	968.0		965.0		964.0	965.72	2.116
6	11:07:30	967.0	966.6	964.3	969.4		967.6	964.0	968.0		968.0		965.0	966.66	1.854
7	11:08:00	967.0	966.5	964.3	969.4		967.6	965.0	968.0		968.0		965.0	966.76	1.700
8	11:08:30	967.9	967.8	965.2	970.2		968.1	965.0	969.0		968.0		966.0	967.47	1.739
9	11:09:00	970.4	970.3	968.5	973.9		971.2	967.0	971.0		971.0		968.0	970.14	2.060
10	11:09:30	971.3	970.6	968.5	974.7		971.7	968.0	972.0		971.0		969.0	970.76	2.066
11	11:10:00	971.3	970.3	968.5	973.9		972.2	969.0	972.0		972.0		969.0	970.91	1.824
12	11:10:30	971.3	970.8	967.7	973.9		971.9	969.0	972.0		971.0		969.0	970.73	1.891
13	11:11:00	972.2	971.4	968.5	974.7		972.7	969.0	972.0		972.0		970.0	971.39	1.939
14	11:11:30	970.4	970.0	968.5	973.9		971.5	968.0	971.0		970.0		969.0	970.26	1.778
15	11:12:00	972.2	970.2	968.5	974.7		972.2	969.0	973.0		970.0		969.0	970.98	2.135
16	11:12:30	969.6	968.8	966.9	972.4		970.4	967.0	972.0		969.0		968.0	969.34	1.977
17	11:13:00	967.9	966.2	965.2	970.2		968.0	965.0	968.0		967.0		965.0	966.94	1.764
18	11:13:30	967.0	966.1	964.3	970.2		968.0	965.0	967.0		968.0		965.0	966.73	1.861
19	11:14:00	969.6	968.5	966.9	971.7		969.3	967.0	970.0		969.0		967.0	968.78	1.618
20	11:14:30	968.7	968.4	966.9	972.4		970.6	967.0	971.0		970.0		967.0	969.11	1.996
21	11:15:00	971.3	970.2	969.4	974.7		971.9	969.0	973.0		971.0		970.0	971.17	1.821
1		.9995	1.0007	.9971	1.0034		1.0008	.9975	1.0017		1.0006		.9986		
2		1.0004	1.0004	.9967	1.0028		1.0016	.9974	1.0005		1.0016		.9985		
3		1.0001	.9996	.9973	1.0032		1.0013	.9971	1.0022		1.0002		.9991		
4		.9996	.9995	.9970	1.0039		1.0014	.9979	1.0016		1.0006		.9985		
5		1.0004	1.0001	.9968	1.0038		1.0009	.9982	1.0024		.9993		.9982		
6		1.0004	.9999	.9976	1.0028		1.0010	.9973	1.0014		1.0014		.9983		
7		1.0003	.9997	.9975	1.0027		1.0009	.9982	1.0013		1.0013		.9982		
8		1.0004	1.0003	.9977	1.0028		1.0007	.9975	1.0016		1.0006		.9985		
9		1.0003	1.0002	.9983	1.0039		1.0011	.9968	1.0009		1.0009		.9978		
10		1.0006	.9998	.9977	1.0041		1.0010	.9972	1.0013		1.0003		.9982		
11		1.0004	.9994	.9975	1.0031		1.0013	.9980	1.0011		1.0011		.9980		
12		1.0006	1.0001	.9969	1.0033		1.0012	.9982	1.0013		1.0003		.9982		
13		1.0008	1.0000	.9970	1.0034		1.0013	.9975	1.0006		1.0006		.9986		
14		1.0001	.9997	.9982	1.0038		1.0013	.9977	1.0008		.9997		.9987		
15		1.0013	.9992	.9974	1.0038		1.0013	.9980	1.0021		.9990		.9980		
16		1.0003	.9994	.9975	1.0032		1.0011	.9976	1.0027		.9996		.9986		
17		1.0010	.9992	.9982	1.0034		1.0011	.9980	1.0011		1.0001		.9980		
18		1.0003	.9993	.9975	1.0036		1.0013	.9982	1.0003		1.0013		.9982		
19		1.0008	.9997	.9981	1.0030		1.0005	.9982	1.0013		1.0002		.9982		
20		.9996	.9993	.9977	1.0034		1.0015	.9978	1.0019		1.0009		.9978		
21		1.0001	.9990	.9982	1.0036		1.0008	.9978	1.0019		.9998		.9988		
	MEAN	1.0003	.9998	.9975	1.0034		1.0011	.9977	1.0014		1.0004		.9983		
	S.D.	.0004	.0005	.0005	.0004		.0003	.0004	.0006		.0007		.0003		

TABLE 2- 6

SECOND INTERCOMPARISON - MAY 2, 1979
 RUN 6: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----											MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24	
1	11:25:00	967.8	967.2	963.9	969.1	971.9	967.6	964.0	968.0	967.0	967.0		966.0	967.23
2	11:25:30	967.8	967.0	963.9	969.8	972.9	968.5	965.0	968.0	967.2	968.0		966.0	967.65
3	11:26:00	966.1	965.5	963.0	967.6	971.9	967.1	963.0	966.0	965.5	967.0		965.0	966.15
4	11:26:30	967.0	966.3	963.0	969.1	971.9	967.8	964.0	967.0	966.2	967.0		966.0	966.85
5	11:27:00	967.8	967.0	963.9	969.1	970.9	968.3	965.0	966.0	966.6	969.0		966.0	967.24
6	11:27:30	967.0	966.5	965.1	966.8	970.9	967.9	965.0	967.0	966.5	968.0		966.0	966.97
7	11:28:00	967.8	967.4	965.1	969.8	971.9	968.6	965.0	968.0	967.0	968.0		966.0	967.69
8	11:28:30	969.6	968.4	966.4	970.6	972.9	970.2	968.0	969.0	968.1	970.0		968.0	969.20
9	11:29:00	970.4	969.1	966.4	971.3	972.9	970.8	968.0	971.0	968.7	971.0		969.0	969.87
10	11:29:30	970.4	969.3	967.3	972.1	973.9	970.8	968.0	971.0	969.1	970.0		969.0	970.08
11	11:30:00	970.4	969.8	967.3	971.3	973.9	971.2	968.0	971.0	969.4	971.0		969.0	970.21
12	11:30:30	971.3	969.9	967.7	972.1	972.9	971.5	968.0	970.0	969.7	971.0		969.0	970.28
13	11:31:00	969.6	968.2	966.4	970.6	970.9	970.3	967.0	970.0	968.7	970.0		968.0	969.06
14	11:31:30	968.7	967.0	965.6	969.8	969.9	969.4	965.0	969.0	967.6	969.0		967.0	968.00
15	11:32:00	967.8	967.5	965.6	969.8	969.9	969.0	966.0	969.0	967.4	968.0		967.0	967.91
16	11:32:30	967.8	966.3	964.7	969.1	970.9	968.2	965.0	968.0	967.0	967.0		966.0	967.27
17	11:33:00	968.7	967.6	965.1	970.6	971.9	969.2	965.0	969.0	967.5	969.0		967.0	968.24
18	11:33:30	967.8	966.7	965.6	969.1	972.9	968.1	965.0	969.0	967.0	967.0		966.0	967.65
19	11:34:00	967.8	966.3	964.7	969.1	971.9	968.1	964.0	968.0	966.7	968.0		966.0	967.33
20	11:34:30	967.0	966.2	963.9	968.3	969.9	967.3	964.0	968.0	966.4	966.0		965.0	966.55
21	11:35:00	967.0	965.8	963.9	968.3	971.9	968.2	964.0	968.0	966.6	967.0		965.0	966.88
1		1.0006	1.0000	.9966	1.0019	1.0048	1.0004	.9967	1.0008	.9998	.9998		.9987	
2		1.0002	.9993	.9961	1.0022	1.0054	1.0009	.9973	1.0004	.9995	1.0004		.9983	
3		.9999	.9993	.9967	1.0015	1.0059	1.0010	.9967	.9998	.9993	1.0009		.9988	
4		1.0002	.9994	.9960	1.0023	1.0052	1.0010	.9971	1.0002	.9993	1.0002		.9991	
5		1.0006	.9998	.9966	1.0019	1.0038	1.0011	.9977	.9987	.9993	1.0018		.9987	
6		1.0000	.9995	.9981	.9998	1.0041	1.0010	.9980	1.0000	.9995	1.0011		.9990	
7		1.0001	.9997	.9973	1.0022	1.0043	1.0009	.9972	1.0003	.9993	1.0003		.9983	
8		1.0004	.9992	.9971	1.0014	1.0038	1.0010	.9988	.9998	.9989	1.0008		.9988	
9		1.0005	.9992	.9964	1.0015	1.0031	1.0010	.9981	1.0012	.9988	1.0012		.9991	
10		1.0003	.9992	.9971	1.0021	1.0039	1.0007	.9979	1.0009	.9990	.9999		.9989	
11		1.0002	.9996	.9970	1.0011	1.0038	1.0010	.9977	1.0008	.9992	1.0008		.9988	
12		1.0010	.9996	.9973	1.0019	1.0027	1.0013	.9976	.9997	.9994	1.0007		.9987	
13		1.0006	.9991	.9973	1.0016	1.0019	1.0013	.9979	1.0010	.9996	1.0010		.9989	
14		1.0007	.9990	.9975	1.0019	1.0020	1.0014	.9969	1.0010	.9996	1.0010		.9990	
15		.9999	.9996	.9976	1.0020	1.0021	1.0011	.9980	1.0011	.9995	1.0001		.9991	
16		1.0005	.9990	.9973	1.0019	1.0037	1.0010	.9977	1.0008	.9997	.9997		.9987	
17		1.0005	.9993	.9968	1.0024	1.0038	1.0010	.9967	1.0008	.9992	1.0008		.9987	
18		1.0002	.9990	.9979	1.0015	1.0054	1.0005	.9973	1.0014	.9993	.9993		.9983	
19		1.0005	.9989	.9973	1.0018	1.0047	1.0008	.9966	1.0007	.9994	1.0007		.9986	
20		1.0005	.9996	.9973	1.0018	1.0035	1.0008	.9974	1.0015	.9998	.9994		.9984	
21		1.0001	.9989	.9969	1.0015	1.0052	1.0014	.9970	1.0012	.9997	1.0001		.9981	
MEAN		1.0004	.9993	.9971	1.0017	1.0040	1.0010	.9974	1.0006	.9994	1.0005		.9987	
S.D.		.0003	.0003	.0005	.0005	.0012	.0003	.0006	.0007	.0003	.0006		.0003	

TABLE 2- 7

SECOND INTERCOMPARISON - MAY 2, 1979
 RUN 7: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----											MEAN	S.D.	
		5	6	7	8	11	13	17	18	19	20	22			24
1	11:46:00	964.8	965.1	961.9	966.6	969.9	965.7	961.0	966.0	964.3	965.0		963.0	964.85	2.407
2	11:46:30	966.5	966.1	963.6	968.8	970.9	967.9	964.0	968.0	966.1	967.0		965.0	966.72	2.140
3	11:47:00	966.5	965.6	963.6	968.1	970.9	967.5	964.0	967.0	965.5	966.0		965.0	966.34	2.046
4	11:47:30	966.5	965.9	962.7	968.8	969.9	967.4	963.0	968.0	965.8	965.0		965.0	966.18	2.255
5	11:48:00	967.4	966.9	965.3	969.6	970.9	968.3	965.0	968.0	966.5	967.0		966.0	967.35	1.777
6	11:48:30	967.3	966.8	965.3	969.6	970.9	969.5	965.0	968.0	967.0	969.0		966.0	967.67	1.904
7	11:49:00	966.5	966.3	964.4	968.8	969.9	968.2	964.0	967.0	966.4	969.0		965.0	966.86	1.943
8	11:49:30	965.7	964.9	963.1	967.3	969.9	966.9	964.0	968.0	965.8	967.0		964.0	966.05	2.011
9	11:50:00	964.8	964.6	962.7	967.3	968.9	966.4	963.0	967.0	965.2	966.0		964.0	965.45	1.892
10	11:50:30	963.9	962.6	961.0	965.8	966.9	964.2	961.0	966.0	962.9	964.0		962.0	963.66	1.991
11	11:51:00	963.9	963.6	961.9	966.6	968.9	965.0	962.0	967.0	963.8	964.0		963.0	964.52	2.178
12	11:51:30	962.2	961.6	960.2	965.1	967.9	963.6	960.0	964.0	962.1	963.0		961.0	962.79	2.314
13	11:52:00	959.6	959.1	958.5	962.8	964.8	962.1	958.0	961.0	960.5	962.0		959.0	960.67	2.092
14	11:52:30	957.9	956.9	955.9	960.6	962.8	959.7	956.0	960.0	958.2	959.0		957.0	958.55	2.123
15	11:53:00	958.7	958.2	957.6	961.3	962.8	959.8	955.0	959.0	958.1	961.0		957.0	958.95	2.187
16	11:53:30	958.7	958.8	957.6	962.1	964.8	960.5	957.0	962.0	959.3	960.0		958.0	959.89	2.323
17	11:54:00	959.6	959.8	958.5	962.8	966.9	961.3	957.0	964.0	960.6	961.0		959.0	960.95	2.774
18	11:54:30	960.5	960.2	959.3	963.6	966.9	961.5	958.0	964.0	961.2	960.0		959.0	961.29	2.602
19	11:55:00	960.5	959.9	959.3	963.6	966.9	961.9	957.0	962.0	961.1	961.0		959.0	961.11	2.600
20	11:55:30	960.5	959.9	959.3	963.6	965.8	961.6	957.0	962.0	960.5	960.0		959.0	960.84	2.376
21	11:56:00	961.3	961.7	960.2	964.3	965.8	963.1	959.0	963.0	962.4	962.0		960.0	962.07	1.971
1		1.0000	1.0003	.9969	1.0018	1.0052	1.0009	.9960	1.0012	.9994	1.0002		.9981		
2		.9998	.9994	.9968	1.0022	1.0043	1.0012	.9972	1.0013	.9994	1.0003		.9982		
3		1.0002	.9992	.9972	1.0018	1.0047	1.0012	.9976	1.0007	.9991	.9997		.9986		
4		1.0003	.9997	.9964	1.0027	1.0038	1.0013	.9967	1.0019	.9996	.9988		.9988		
5		1.0000	.9995	.9979	1.0023	1.0037	1.0010	.9976	1.0007	.9991	.9996		.9986		
6		.9996	.9991	.9975	1.0020	1.0033	1.0019	.9972	1.0003	.9993	1.0014		.9983		
7		.9996	.9994	.9975	1.0020	1.0031	1.0014	.9970	1.0001	.9995	1.0022		.9981		
8		.9996	.9988	.9969	1.0013	1.0040	1.0009	.9979	1.0020	.9997	1.0010		.9979		
9		.9993	.9991	.9972	1.0019	1.0036	1.0010	.9975	1.0016	.9997	1.0006		.9985		
10		1.0002	.9989	.9972	1.0022	1.0034	1.0006	.9972	1.0024	.9992	1.0003		.9983		
11		.9994	.9990	.9973	1.0022	1.0045	1.0005	.9974	1.0026	.9993	.9995		.9984		
12		.9994	.9988	.9973	1.0024	1.0053	1.0008	.9971	1.0013	.9993	1.0002		.9981		
13		.9989	.9984	.9977	1.0022	1.0043	1.0015	.9972	1.0003	.9998	1.0014		.9983		
14		.9993	.9983	.9972	1.0021	1.0044	1.0012	.9973	1.0015	.9996	1.0005		.9984		
15		.9997	.9992	.9986	1.0024	1.0040	1.0009	.9959	1.0000	.9991	1.0021		.9980		
16		.9988	.9989	.9976	1.0023	1.0051	1.0006	.9970	1.0022	.9994	1.0001		.9980		
17		.9986	.9988	.9974	1.0019	1.0062	1.0004	.9959	1.0032	.9996	1.0000		.9980		
18		.9992	.9989	.9979	1.0024	1.0053	1.0002	.9966	1.0028	.9999	.9987		.9976		
19		.9994	.9987	.9981	1.0026	1.0060	1.0008	.9957	1.0009	1.0000	.9999		.9978		
20		.9996	.9990	.9984	1.0029	1.0052	1.0008	.9960	1.0012	.9996	.9991		.9981		
21		.9992	.9996	.9981	1.0023	1.0039	1.0011	.9968	1.0010	1.0003	.9999		.9978		
MEAN		.9995	.9991	.9975	1.0022	1.0045	1.0010	.9969	1.0014	.9995	1.0003		.9982		
S.D.		.0005	.0005	.0005	.0003	.0009	.0004	.0006	.0009	.0003	.0010		.0003		

TABLE 2- 8

SECOND INTERCOMPARISON - MAY 2, 1979
 RUN 8: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----												MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24		
1	12:10:00	957.9	958.0	954.0	958.3		957.9	954.0	961.0	957.1	955.0		956.0	956.92	2.192
2	12:10:30	957.0	956.4	952.3	957.5		958.0	954.0	959.0	956.5	955.0		955.0	956.07	2.008
3	12:11:00	957.0	956.0	954.0	957.5		957.3	953.0	958.0	955.5	954.0		954.0	955.63	1.790
4	12:11:30	953.5	953.9	951.4	955.3		956.0	953.0	956.0	954.5	953.0		953.0	953.96	1.489
5	12:12:00	953.5	952.9	950.6	954.5		954.3	951.0	954.0	952.0	953.0		951.0	952.68	1.451
6	12:12:30	953.5	953.4	950.6	955.3		953.9	950.0	956.0	952.4	952.0		952.0	952.91	1.902
7	12:13:00	955.3	955.1	952.3	956.8		955.7	953.0	958.0	954.8	953.0		954.0	954.80	1.788
8	12:13:30	954.4	953.5	949.7	956.0		954.9	951.0	958.0	953.3	952.0		952.0	953.48	2.461
9	12:14:00	954.4	953.6	951.4	955.3		954.5	950.0	955.0	953.1	953.0		952.0	953.23	1.696
10	12:14:30	955.3	954.2	952.3	956.0		955.8	952.0	957.0	954.2	954.0		953.0	954.38	1.648
11	12:15:00	954.4	953.9	952.7	956.0		955.5	953.0	956.0	953.9	953.0		953.0	954.14	1.288
12	12:15:30	954.4	952.8	952.3	955.3		954.9	952.0	956.0	953.1	954.0		951.0	953.58	1.600
13	12:16:00	953.5	952.6	951.4	955.3		954.7	951.0	957.0	953.1	953.0		952.0	953.36	1.852
14	12:16:30	953.5	953.0	951.4	955.3		954.0	951.0	956.0	952.9	951.0		952.0	953.01	1.736
15	12:17:00	953.5	952.5	951.4	955.3		954.0	951.0	956.0	953.1	951.0		952.0	952.98	1.743
16	12:17:30	954.4	953.6	951.4	956.0		954.9	952.0	957.0	953.6	952.0		953.0	953.79	1.814
17	12:18:00	953.5	952.0	951.0	954.5		954.2	951.0	953.0	952.5	954.0		951.0	952.67	1.378
18	12:18:30	952.7	951.2	949.7	953.0		953.0	950.0	954.0	951.4	952.0		950.0	951.70	1.486
19	12:19:00	953.5	952.1	951.4	953.8		953.2	950.0	956.0	952.4	953.0		951.0	952.64	1.679
20	12:19:30	948.3	947.5	945.5	948.5		950.0	946.0	951.0	949.2	948.0		948.0	948.20	1.663
21	12:20:00	940.6	941.0	938.7	941.8		943.3	942.0	944.0	944.2	942.0		942.0	941.96	1.647
1		1.0010	1.0011	.9969	1.0014		1.0010	.9969	1.0043	1.0002	.9980		.9990		
2		1.0010	1.0003	.9961	1.0015		1.0020	.9978	1.0031	1.0004	.9989		.9989		
3		1.0014	1.0004	.9983	1.0020		1.0017	.9972	1.0025	.9999	.9983		.9983		
4		.9995	.9999	.9973	1.0014		1.0021	.9990	1.0021	1.0006	.9990		.9990		
5		1.0009	1.0002	.9978	1.0019		1.0017	.9982	1.0014	.9993	1.0003		.9982		
6		1.0006	1.0005	.9976	1.0025		1.0010	.9969	1.0032	.9995	.9990		.9990		
7		1.0005	1.0003	.9974	1.0021		1.0009	.9981	1.0034	1.0000	.9981		.9992		
8		1.0010	1.0000	.9960	1.0026		1.0015	.9974	1.0047	.9998	.9984		.9984		
9		1.0012	1.0004	.9981	1.0022		1.0013	.9966	1.0019	.9999	.9998		.9987		
10		1.0010	.9998	.9978	1.0017		1.0015	.9975	1.0027	.9998	.9996		.9986		
11		1.0003	.9997	.9985	1.0019		1.0014	.9988	1.0019	.9997	.9988		.9988		
12		1.0009	.9992	.9987	1.0018		1.0014	.9983	1.0025	.9995	1.0004		.9973		
13		1.0001	.9992	.9979	1.0020		1.0014	.9975	1.0038	.9997	.9996		.9986		
14		1.0005	1.0000	.9983	1.0024		1.0010	.9979	1.0031	.9999	.9979		.9989		
15		1.0005	.9995	.9983	1.0024		1.0011	.9979	1.0032	1.0001	.9979		.9990		
16		1.0006	.9998	.9975	1.0023		1.0012	.9981	1.0034	.9998	.9981		.9992		
17		1.0009	.9993	.9982	1.0019		1.0016	.9982	1.0003	.9998	1.0014		.9982		
18		1.0011	.9995	.9979	1.0014		1.0014	.9982	1.0024	.9997	1.0003		.9982		
19		1.0009	.9994	.9987	1.0012		1.0006	.9972	1.0035	.9997	1.0004		.9983		
20		1.0001	.9993	.9972	1.0003		1.0019	.9977	1.0030	1.0011	.9998		.9998		
21		.9986	.9990	.9965	.9998		1.0014	1.0000	1.0022	1.0024	1.0000		1.0000		
MEAN		1.0006	.9999	.9977	1.0018		1.0014	.9979	1.0028	1.0000	.9992		.9987		
S.D.		.0006	.0005	.0008	.0007		.0004	.0008	.0010	.0007	.0010		.0006		

TABLE 2- 9

SECOND INTERCOMPARISON - MAY 2, 1979
 RUN 9: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----												MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24		
1	13:12:00	975.7	975.5	973.1	976.6	982.9	978.1	975.0	980.0	977.1	977.0		976.0	977.00	2.633
2	13:12:30	976.6	975.2	975.6	976.6	981.9	976.8	973.0	977.0	974.8	976.0		974.0	976.14	2.285
3	13:13:00	978.3	977.4	974.8	978.8	983.9	978.7	976.0	981.0	978.7	977.0		977.0	978.33	2.469
4	13:13:30	979.2	977.2	976.5	978.8	983.9	978.7	974.0	979.0	975.7	976.0		976.0	977.73	2.641
5	13:14:00	980.9	979.5	978.2	980.3	984.9	981.5	977.0	981.0	979.1	982.0		978.0	980.22	2.212
6	13:14:30	980.9	979.3	979.0	980.3	983.9	982.1	977.0	980.0	978.9	983.0		978.0	980.22	2.114
7	13:15:00	983.5	982.2	980.7	983.3	985.9	984.9	981.0	984.0	982.3	985.0		982.0	983.25	1.818
8	13:15:30	981.8	981.2	979.0	981.1	983.9	983.1	980.0	984.0	981.7	983.0		981.0	981.80	1.580
9	13:16:00	977.4	975.9	974.8	977.3	978.9	979.1	976.0	980.0	977.4	979.0		977.0	977.62	1.519
10	13:16:30	974.8	974.7	972.3	975.1	978.9	975.7	972.0	978.0	974.3	976.0		974.0	975.07	2.087
11	13:17:00	975.7	974.7	973.1	975.1	978.9	976.0	972.0	978.0	974.6	976.0		974.0	975.28	1.992
12	13:17:30	973.1	971.8	969.7	972.8	976.9	974.5	971.0	975.0	973.6	973.0		972.0	973.04	1.980
13	13:18:00	970.5	970.4	968.0	972.1	975.9	972.5	969.0	973.0	971.8	972.0		970.0	971.38	2.147
14	13:18:30	967.9	967.0	964.6	968.3	970.8	968.9	965.0	970.0	967.7	969.0		966.0	967.75	1.967
15	13:19:00	962.7	961.3	959.5	962.3	964.8	964.4	960.0	964.0	962.6	964.0		961.0	962.42	1.799
16	13:19:30	961.0	960.5	959.5	962.3	964.8	963.1	959.0	963.0	961.2	964.0		960.0	961.67	1.900
17	13:20:00	962.7	962.3	960.4	963.1	965.8	964.0	959.0	964.0	962.3	965.0		961.0	962.69	2.016
18	13:20:30	962.7	961.6	959.5	962.3	964.8	964.1	960.0	965.0	962.2	964.0		961.0	962.47	1.866
19	13:21:00	964.5	963.8	961.2	965.3	963.8	964.1	960.0	966.0	962.3	963.0		962.0	963.27	1.787
20	13:21:30	961.9	961.8	959.5	963.8	962.8	963.4	959.0	965.0	961.8	962.0		961.0	962.00	1.766
21	13:22:00	958.4	957.1	955.4	959.3	959.8	958.6	955.0	961.0	957.0	957.0		956.0	957.69	1.897
1		.9987	.9985	.9960	.9996	1.0060	1.0011	.9980	1.0031	1.0001	1.0000		.9990		
2		1.0005	.9990	.9995	1.0005	1.0059	1.0007	.9968	1.0009	.9986	.9999		.9978		
3		1.0000	.9991	.9964	1.0005	1.0057	1.0004	.9976	1.0027	1.0004	.9986		.9986		
4		1.0015	.9995	.9987	1.0011	1.0063	1.0010	.9962	1.0013	.9979	.9982		.9982		
5		1.0007	.9993	.9979	1.0001	1.0048	1.0013	.9967	1.0008	.9989	1.0018		.9977		
6		1.0007	.9991	.9988	1.0001	1.0038	1.0019	.9967	.9998	.9987	1.0028		.9977		
7		1.0002	.9989	.9974	1.0000	1.0027	1.0017	.9977	1.0008	.9990	1.0028		.9987		
8		1.0000	.9994	.9971	.9993	1.0021	1.0013	.9982	1.0022	.9999	1.0012		.9992		
9		.9998	.9993	.9971	.9997	1.0013	1.0015	.9983	1.0024	.9998	1.0014		.9994		
10		.9997	.9996	.9972	1.0000	1.0039	1.0006	.9968	1.0030	.9992	1.0010		.9989		
11		1.0004	.9994	.9978	.9998	1.0037	1.0007	.9966	1.0028	.9993	1.0007		.9987		
12		1.0001	.9987	.9966	.9998	1.0040	1.0015	.9979	1.0020	1.0006	1.0000		.9989		
13		.9991	.9990	.9965	1.0007	1.0047	1.0012	.9975	1.0017	1.0004	1.0006		.9986		
14		1.0002	.9992	.9967	1.0006	1.0032	1.0012	.9972	1.0023	1.0000	1.0013		.9982		
15		1.0003	.9988	.9970	.9999	1.0025	1.0021	.9975	1.0016	1.0002	1.0016		.9985		
16		.9993	.9988	.9977	1.0007	1.0033	1.0015	.9972	1.0014	.9995	1.0024		.9983		
17		1.0000	.9996	.9976	1.0004	1.0032	1.0014	.9962	1.0014	.9996	1.0024		.9982		
18		1.0002	.9991	.9968	.9998	1.0024	1.0017	.9974	1.0026	.9997	1.0016		.9985		
19		1.0013	1.0005	.9976	1.0021	1.0005	1.0009	.9966	1.0028	.9990	.9997		.9987		
20		.9999	.9998	.9974	1.0019	1.0008	1.0015	.9969	1.0031	.9998	1.0000		.9990		
21		1.0007	.9994	.9976	1.0017	1.0022	1.0009	.9972	1.0035	.9993	.9993		.9982		
MEAN		1.0002	.9992	.9974	1.0004	1.0035	1.0012	.9972	1.0020	.9995	1.0003		.9985		
S.D.		.0007	.0004	.0008	.0008	.0017	.0004	.0006	.0010	.0007	.0013		.0005		

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TABLE 2-10

SECOND INTERCOMPARISON - MAY 2, 1979
 RUN 10: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----												MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24		
1	14:57:00	938.2	938.4	935.9	941.7	944.6	940.4	938.0	940.0	939.2			937.0	939.34	2.497
2	14:57:30	938.2	937.8	935.9	941.0	943.6	940.4	937.0	939.0	938.8			937.0	938.87	2.277
3	14:58:00	939.0	937.8	936.8	941.0	942.6	940.2	937.0	939.0	938.9			937.0	938.93	1.904
4	14:58:30	940.7	940.4	938.5	943.2	944.6	942.0	939.0	941.0	940.5			939.0	940.89	1.933
5	14:59:00	940.7	940.0	937.6	942.5	944.6	941.7	939.0	942.0	940.7			939.0	940.78	2.026
6	14:59:30	939.9	939.6	937.6	942.5	944.3	941.2	938.0	941.0	940.1			938.0	940.22	2.125
7	15:00:00	938.2	937.6	935.9	941.7	942.6	940.2	937.0	939.0	938.7			937.0	938.79	2.149
8	15:00:30	939.9	939.9	938.5	944.0	945.6	941.3	937.0	942.0	940.2			938.0	940.64	2.672
9	15:04:00	933.8	932.2	930.9	938.0	934.6	933.0	930.0	932.0	932.9			931.0	932.84	2.285
10	15:04:30	935.6	933.9	932.5	940.2	937.6	934.5	932.0	935.0	934.0			932.0	934.73	2.585
11	15:05:00	937.3	935.6	934.2	941.7	938.6	937.0	934.0	936.0	936.9			934.0	936.53	2.388
12	15:05:30	938.2	937.7	936.8	944.0	942.6	938.7	935.0	939.0	938.9			937.0	938.79	2.683
13	15:06:00	938.2	937.7	936.8	943.2	940.6	938.9	936.0	937.0	938.7			937.0	938.41	2.134
14	15:06:30	936.4	935.6	934.2	941.7	939.6	937.4	935.0	936.0	937.3			935.0	936.82	2.308
15	15:07:00	934.7	934.4	932.5	939.5	938.6	935.7	933.0	933.0	935.3			933.0	934.97	2.415
16	15:07:30	933.0	932.8	931.7	937.2	937.6	934.8	932.0	933.0	934.0			932.0	933.81	2.114
17	15:08:00	933.8	932.5	931.7	937.2	936.6	934.6	931.0	932.0	933.1			931.0	933.35	2.199
18	15:08:30	933.0	931.6	930.0	935.7	935.6	934.2	931.0	932.0	932.5			931.0	932.66	1.959
19	15:09:00	932.1	930.6	929.2	933.5	935.6	932.4	930.0	931.0	931.1			930.0	931.55	1.914
20	15:09:30	931.2	930.1	929.2	933.5	934.6	931.7	928.0	931.0	930.1			928.0	930.74	2.158
21	15:10:00	931.2	929.1	929.2	933.5	934.6	932.0	929.0	932.0	930.9			924.0	930.55	2.964
1		.9988	.9990	.9963	1.0025	1.0056	1.0011	.9986	1.0007	.9999			.9975		
2		.9993	.9989	.9968	1.0023	1.0050	1.0016	.9980	1.0001	.9999			.9980		
3		1.0001	.9988	.9977	1.0022	1.0039	1.0014	.9979	1.0001	1.0000			.9979		
4		.9998	.9995	.9975	1.0025	1.0039	1.0012	.9980	1.0001	.9996			.9980		
5		.9999	.9992	.9966	1.0018	1.0041	1.0010	.9981	1.0013	.9999			.9981		
6		.9997	.9993	.9972	1.0024	1.0043	1.0010	.9976	1.0008	.9999			.9976		
7		.9994	.9987	.9969	1.0031	1.0041	1.0015	.9981	1.0002	.9999			.9981		
8		.9992	.9992	.9977	1.0036	1.0053	1.0007	.9961	1.0014	.9995			.9972		
9		1.0010	.9993	.9979	1.0055	1.0019	1.0002	.9970	.9991	1.0001			.9980		
10		1.0009	.9991	.9976	1.0059	1.0031	.9998	.9971	1.0003	.9992			.9971		
11		1.0008	.9990	.9975	1.0055	1.0022	1.0005	.9973	.9994	1.0004			.9973		
12		.9994	.9988	.9979	1.0055	1.0041	.9999	.9960	1.0002	1.0001			.9981		
13		.9998	.9992	.9983	1.0051	1.0023	1.0005	.9974	.9985	1.0003			.9985		
14		.9996	.9987	.9972	1.0052	1.0030	1.0006	.9981	.9991	1.0005			.9981		
15		.9997	.9994	.9974	1.0048	1.0039	1.0008	.9979	.9979	1.0004			.9979		
16		.9991	.9989	.9977	1.0036	1.0041	1.0011	.9981	.9991	1.0002			.9981		
17		1.0005	.9991	.9982	1.0041	1.0035	1.0013	.9975	.9986	.9997			.9975		
18		1.0004	.9989	.9971	1.0033	1.0032	1.0017	.9982	.9993	.9998			.9982		
19		1.0006	.9990	.9975	1.0021	1.0043	1.0009	.9983	.9994	.9995			.9983		
20		1.0005	.9993	.9983	1.0030	1.0041	1.0010	.9971	1.0003	.9993			.9971		
21		1.0007	.9984	.9985	1.0032	1.0044	1.0016	.9983	1.0016	1.0004			.9930		
MEAN		1.0000	.9990	.9975	1.0037	1.0038	1.0009	.9977	.9999	.9999			.9976		
S.D.		.0007	.0003	.0006	.0014	.0010	.0005	.0007	.0010	.0004			.0011		

TABLE 2-11

SECOND INTERCOMPARISON - MAY 2, 1979
 RUN 11: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----												MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24		
1	15:54:00	889.5	891.7	888.1	892.6	893.3	892.6	889.0	892.0	890.8	892.0		890.0	891.05	1.690
2	15:54:30	889.5	892.0	889.0	892.6	893.3	892.6	890.0	893.0	891.4	894.0		891.0	891.67	1.638
3	15:55:00	891.2	891.9	889.8	892.8	894.3	892.8	890.0	895.0	891.4	893.0		891.0	892.11	1.652
4	15:55:30	893.0	894.6	892.4	895.0	897.4	895.0	892.0	896.0	893.1	894.0		892.0	894.05	1.740
5	15:56:00	895.6	896.6	894.1	897.2	897.2	897.2	894.0	896.0	895.5	898.0		895.0	896.05	1.349
6	15:56:30	895.6	897.2	894.9	898.0	898.4	898.0	895.0	898.0	896.2	899.0		896.0	896.94	1.448
7	15:57:00	897.3	898.6	896.6	899.5	901.4	899.5	897.0	899.0	897.9	900.0		897.0	898.53	1.511
8	15:57:30	897.3	899.2	897.4	900.6	902.4	900.6	897.0	901.0	898.9	901.0		898.0	899.40	1.828
9	15:58:00	897.3	899.2	897.4	900.3	902.4	900.3	897.0	901.0	899.1	901.0		898.0	899.36	1.788
10	15:58:30	897.3	899.2	897.4	900.4	901.4	900.4	897.0	900.0	898.3	901.0		898.0	899.13	1.596
11	15:59:00	898.2	899.5	897.4	900.8	903.4	900.8	898.0	901.0	899.4	900.0		898.0	899.68	1.770
12	15:59:30	898.2	899.1	898.3	900.4	903.4	900.4	898.0	901.0	899.9	899.0		898.0	899.61	1.648
13	16:00:00	897.3	898.5	897.4	899.3	902.4	899.3	897.0	901.0	898.8	899.0		897.0	898.82	1.706
14	16:00:30	895.6	897.6	895.8	898.3	899.4	898.3	897.0	898.0	897.3	899.0		896.0	897.48	1.282
15	16:01:00	892.1	893.3	890.7	894.7	896.3	894.7	893.0	895.0	894.0	894.0		893.0	893.71	1.527
16	16:01:30	889.5	889.3	887.3	890.8	890.3	890.8	888.0	891.0	889.8	891.0		888.0	889.62	1.336
17	16:02:00	889.5	889.0	887.3	889.9	890.3	889.9	887.0	890.0	888.3	890.0		887.0	888.93	1.299
18	16:02:30	888.7	888.5	887.3	889.5	890.3	889.5	887.0	890.0	888.7	890.0		887.0	888.77	1.222
19	16:03:00	886.9	887.6	885.6	889.2	888.3	889.2	887.0	889.0	888.7	890.0		887.0	888.05	1.325
20	16:03:30	888.7	889.7	886.9	890.8	888.3	890.8	888.0	889.0	888.9	892.0		888.0	889.19	1.502
21	16:04:00														
1		.9983	1.0007	.9967	1.0017	1.0025	1.0017	.9977	1.0011	.9997	1.0011		.9988		
2		.9976	1.0004	.9970	1.0010	1.0018	1.0010	.9981	1.0015	.9997	1.0026		.9992		
3		.9990	.9998	.9974	1.0008	1.0025	1.0008	.9976	1.0032	.9992	1.0010		.9988		
4		.9988	1.0006	.9982	1.0011	1.0038	1.0011	.9977	1.0022	.9989	.9999		.9977		
5		.9995	1.0006	.9978	1.0013	1.0015	1.0013	.9977	.9999	.9994	1.0022		.9988		
6		.9985	1.0003	.9977	1.0012	1.0016	1.0012	.9978	1.0012	.9992	1.0023		.9990		
7		.9986	1.0001	.9979	1.0011	1.0032	1.0011	.9983	1.0005	.9993	1.0016		.9983		
8		.9977	.9998	.9978	1.0013	1.0033	1.0013	.9973	1.0018	.9994	1.0018		.9984		
9		.9977	.9998	.9978	1.0010	1.0034	1.0010	.9974	1.0018	.9997	1.0018		.9985		
10		.9980	1.0001	.9981	1.0014	1.0025	1.0014	.9976	1.0010	.9991	1.0021		.9987		
11		.9984	.9998	.9975	1.0012	1.0041	1.0012	.9981	1.0015	.9997	1.0004		.9981		
12		.9984	.9994	.9985	1.0009	1.0042	1.0009	.9982	1.0015	1.0003	.9993		.9982		
13		.9983	.9976	.9984	1.0005	1.0040	1.0005	.9980	1.0024	1.0000	1.0002		.9980		
14		.9979	1.0001	.9981	1.0009	1.0021	1.0009	.9995	1.0006	.9998	1.0017		.9983		
15		.9982	.9995	.9966	1.0011	1.0029	1.0011	.9992	1.0014	1.0003	1.0003		.9992		
16		.9999	.9996	.9974	1.0013	1.0038	1.0013	.9982	1.0016	1.0002	1.0016		.9982		
17		1.0006	1.0001	.9982	1.0011	1.0015	1.0011	.9978	1.0012	.9993	1.0012		.9978		
18		.9999	.9997	.9983	1.0008	1.0017	1.0008	.9980	1.0014	.9999	1.0014		.9980		
19		.9987	.9995	.9972	1.0013	1.0003	1.0013	.9988	1.0011	1.0007	1.0022		.9988		
20		.9994	1.0006	.9974	1.0018	.9990	1.0018	.9987	.9998	.9997	1.0032		.9987		
21															
MEAN		.9987	1.0000	.9977	1.0011	1.0023	1.0011	.9981	1.0013	.9997	1.0014		.9985		
S.D.		.0008	.0004	.0005	.0003	.0014	.0003	.0006	.0008	.0005	.0010		.0004		

TABLE 2-12

SECOND INTERCOMPARISON - MAY 3, 1979
 RUN 12: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----												MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24		
1	09:10:00	869.5	870.0	867.1	872.2	871.2	871.2	868.0	874.0	870.5	869.0	871.0	869.0	870.22	1.883
2	09:10:30	870.4	870.5	868.8	871.6	872.2	872.1	868.0	875.0	871.6	871.0	871.0	870.0	871.02	1.779
3	09:11:00	873.0	872.1	869.7	873.8	874.2	873.6	870.0	876.0	873.0	872.0	872.0	872.0	872.62	1.742
4	09:11:30	872.1	872.5	870.5	874.3	873.2	873.9	870.0	876.0	872.9	873.0	872.0	872.0	872.78	1.604
5	09:12:00	873.0	872.6	870.5	875.3	873.2	874.1	870.0	876.0	873.1	873.0	873.0	872.0	872.98	1.704
6	09:12:30	872.1	871.9	869.7	874.1	873.2	873.8	870.0	875.0	872.8	872.0	873.0	872.0	872.47	1.550
7	09:13:00	870.4	871.7	869.7	873.8	872.2	873.6	869.0	874.0	872.5	872.0	872.0	871.0	871.82	1.586
8	09:13:30	870.4	871.5	869.7	873.8	872.2	873.0	870.0	875.0	872.1	872.0	872.0	871.0	871.89	1.545
9	09:14:00	872.1	872.0	870.5	874.7	873.2	873.6	870.0	876.0	872.7	872.0	873.0	872.0	872.65	1.651
10	09:14:30	873.9	872.7	871.3	875.6	874.2	874.6	871.0	876.0	873.3	872.0	873.0	873.0	873.38	1.563
11	09:15:00	873.0	871.5	871.3	877.3	875.2	873.9	870.0	876.0	872.6	872.0	872.0	872.0	873.07	2.140
12	09:15:30	872.1	871.6	869.7	878.2	873.2	873.5	869.0	874.0	872.1	872.0	872.0	871.0	872.37	2.335
13	09:16:00	870.4	870.7	869.7	873.6	872.2	873.0	869.0	874.0	871.9	871.0	871.0	871.0	871.46	1.526
14	09:16:30	872.1	871.2	869.7	875.7	873.2	873.2	870.0	875.0	872.4	871.0	872.0	871.0	872.21	1.838
15	09:17:00	870.4	871.6	870.5	874.2	874.2	873.6	870.0	876.0	872.4	871.0	872.0	872.0	872.32	1.837
16	09:17:30	873.0	872.6	871.3	878.2	873.2	874.4	871.0	876.0	873.3	872.0	873.0	872.0	873.50	2.110
17	09:18:00	874.7	874.5	873.0	877.1	877.2	876.0	872.0	877.0	875.0	874.0	875.0	874.0	874.96	1.640
18	09:18:30	878.2	877.2	875.6	879.8	880.2	878.6	875.0	880.0	877.5	876.0	877.0	877.0	877.67	1.728
19	09:19:00	879.0	878.3	877.3	881.6	881.2	880.6	876.0	881.0	878.8	878.0	879.0	878.0	879.07	1.720
20	09:19:30	878.2	878.4	877.3	880.8	880.2	880.2	877.0	881.0	878.8	878.0	879.0	878.0	878.91	1.347
21	09:20:00	879.0	878.5	877.3	881.6	880.2	880.3	877.0	880.0	878.9	879.0	879.0	878.0	879.07	1.314
1		.9992	.9997	.9964	1.0023	1.0011	1.0011	.9974	1.0043	1.0003	.9986	1.0009	.9986		
2		.9993	.9994	.9975	1.0007	1.0014	1.0012	.9965	1.0046	1.0007	1.0000	1.0000	.9988		
3		1.0004	.9994	.9967	1.0014	1.0018	1.0011	.9970	1.0039	1.0004	.9993	.9993	.9993		
4		.9992	.9997	.9974	1.0017	1.0005	1.0013	.9968	1.0037	1.0001	1.0002	1.0002	.9991		
5		1.0000	.9996	.9972	1.0027	1.0002	1.0013	.9966	1.0035	1.0001	1.0000	1.0000	.9989		
6		.9996	.9994	.9968	1.0019	1.0008	1.0015	.9972	1.0029	1.0004	.9995	1.0006	.9995		
7		.9984	.9999	.9976	1.0023	1.0004	1.0020	.9968	1.0025	1.0008	1.0002	1.0002	.9991		
8		.9983	.9996	.9975	1.0022	1.0004	1.0013	.9978	1.0036	1.0002	1.0001	1.0001	.9990		
9		.9994	.9993	.9975	1.0023	1.0006	1.0011	.9970	1.0038	1.0001	.9993	1.0004	.9993		
10		1.0006	.9992	.9976	1.0025	1.0009	1.0014	.9973	1.0030	.9999	.9984	.9996	.9996		
11		.9999	.9982	.9980	1.0048	1.0024	1.0010	.9965	1.0034	.9995	.9988	.9988	.9988		
12		.9997	.9991	.9969	1.0067	1.0010	1.0013	.9961	1.0019	.9997	.9996	.9996	.9984		
13		.9988	.9991	.9980	1.0025	1.0009	1.0018	.9972	1.0029	1.0005	.9995	.9995	.9995		
14		.9999	.9988	.9971	1.0040	1.0011	1.0011	.9975	1.0032	1.0002	.9986	.9998	.9986		
15		.9978	.9992	.9979	1.0021	1.0021	1.0015	.9973	1.0042	1.0001	.9985	.9996	.9996		
16		.9994	.9990	.9975	1.0054	1.0019	1.0010	.9971	1.0029	.9998	.9983	.9994	.9983		
17		.9997	.9995	.9978	1.0024	1.0026	1.0012	.9966	1.0023	1.0000	.9989	1.0000	.9989		
18		1.0006	.9995	.9976	1.0024	1.0029	1.0011	.9970	1.0026	.9998	.9981	.9992	.9992		
19		.9999	.9991	.9980	1.0029	1.0024	1.0017	.9965	1.0022	.9997	.9988	.9999	.9988		
20		.9992	.9994	.9982	1.0022	1.0015	1.0015	.9978	1.0024	.9999	.9990	1.0001	.9990		
21		.9999	.9994	.9980	1.0029	1.0013	1.0014	.9976	1.0011	.9998	.9999	.9999	.9988		
MEAN		.9995	.9993	.9975	1.0028	1.0013	1.0013	.9970	1.0031	1.0001	.9992	.9999	.9990		
S.D.		.0007	.0004	.0005	.0014	.0008	.0003	.0005	.0009	.0003	.0007	.0005	.0004		

TABLE 2-13

SECOND INTERCOMPARISON - MAY 3, 1979
 RUN 13: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----												MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24		
1	09:33:00	889.5	889.5	887.1	892.8	893.2	891.6	887.0	892.0	890.9	891.0	889.5	889.0	890.26	2.018
2	09:33:30	889.5	890.3	887.1	894.2	893.2	891.8	887.0	893.0	891.0	891.0	889.5	889.0	890.55	2.286
3	09:34:00	891.2	891.1	888.8	895.5	894.2	892.7	888.0	893.0	891.8	891.0	890.5	890.0	891.48	2.140
4	09:34:30	892.9	892.1	889.7	895.8	895.2	893.2	889.0	894.0	892.4	893.0	891.5	890.0	892.40	2.105
5	09:35:00	893.8	892.9	889.7	897.6	895.2	894.6	890.0	894.0	893.5	894.0	892.5	892.0	893.32	2.162
6	09:35:30	894.7	894.3	892.2	899.3	896.2	895.9	892.0	895.0	894.7	896.0	894.5	893.0	894.82	1.979
7	09:36:00	896.4	895.7	893.9	900.4	898.2	897.2	894.0	898.0	896.1	897.0	895.5	895.0	896.45	1.862
8	09:36:30	896.4	896.9	893.9	901.2	899.2	897.9	894.0	899.0	897.3	898.0	896.5	896.0	897.19	2.093
9	09:37:00	896.4	896.1	893.9	900.4	899.2	897.8	894.0	898.0	897.0	898.0	896.5	895.0	896.86	1.973
10	09:37:30	897.2	896.9	894.7	901.2	900.3	897.9	895.0	899.0	897.6	898.0	896.5	896.0	897.52	1.954
11	09:38:00	897.2	897.0	895.2	902.0	901.3	898.8	895.0	899.0	898.3	898.0	897.5	896.0	897.94	2.160
12	09:38:30	897.2	897.3	895.6	901.2	899.2	898.9	895.0	898.0	897.9	899.0	897.5	896.0	897.73	1.726
13	09:39:00	898.1	897.6	895.6	901.2	898.2	899.6	896.0	899.0	898.5	901.0	897.5	897.0	898.27	1.742
14	09:39:30	899.0	897.9	896.4	901.5	899.2	900.0	896.0	900.0	898.5	900.0	897.5	897.0	898.58	1.670
15	09:40:00	899.8	891.2	896.9	902.3	900.3	899.0	896.0	900.0	899.1	901.0	898.5	898.0	898.51	2.874
16	09:40:30	899.8	899.4	898.1	902.8	901.3	901.2	898.0	901.0	900.4	902.0	899.5	899.0	900.21	1.504
17	09:41:00	899.8	899.0	897.3	902.0	900.3	901.1	898.0	901.0	899.6	901.0	899.5	899.0	899.80	1.367
18	09:41:30	899.8	899.8	898.1	903.6	902.3	902.0	898.0	902.0	900.4	902.0	900.5	900.0	900.71	1.714
19	09:42:00	899.0	899.1	898.1	902.7	902.3	901.9	898.0	902.0	900.2	901.0	899.5	899.0	900.23	1.685
20	09:42:30	899.0	899.4	898.1	902.7	902.3	901.4	898.0	903.0	900.4	901.0	899.5	899.0	900.32	1.751
21	09:43:00	899.0	899.3	897.3	901.6	902.3	901.1	897.0	902.0	899.7	901.0	899.5	899.0	899.90	1.734
1		.9991	.9991	.9965	1.0029	1.0033	1.0015	.9963	1.0020	1.0007	1.0008	.9991	.9986		
2		.9988	.9997	.9961	1.0041	1.0030	1.0014	.9960	1.0028	1.0005	1.0005	.9988	.9983		
3		.9997	.9996	.9970	1.0045	1.0030	1.0014	.9961	1.0017	1.0004	.9995	.9989	.9983		
4		1.0006	.9997	.9970	1.0038	1.0031	1.0009	.9962	1.0018	1.0000	1.0007	.9990	.9973		
5		1.0005	.9995	.9960	1.0048	1.0021	1.0014	.9963	1.0008	1.0002	1.0008	.9991	.9985		
6		.9999	.9994	.9971	1.0050	1.0015	1.0012	.9969	1.0002	.9999	1.0013	.9996	.9980		
7		.9999	.9992	.9972	1.0044	1.0020	1.0008	.9973	1.0017	.9996	1.0006	.9989	.9984		
8		.9991	.9997	.9963	1.0045	1.0022	1.0008	.9964	1.0020	1.0001	1.0009	.9992	.9987		
9		.9995	.9992	.9967	1.0039	1.0026	1.0010	.9968	1.0013	1.0002	1.0013	.9996	.9979		
10		.9996	.9993	.9969	1.0041	1.0031	1.0004	.9972	1.0016	1.0001	1.0005	.9989	.9983		
11		.9992	.9990	.9969	1.0045	1.0037	1.0010	.9967	1.0012	1.0004	1.0001	.9995	.9978		
12		.9994	.9995	.9976	1.0039	1.0016	1.0013	.9970	1.0003	1.0002	1.0014	.9997	.9981		
13		.9998	.9992	.9970	1.0033	.9999	1.0015	.9975	1.0008	1.0003	1.0030	.9991	.9986		
14		1.0005	.9992	.9976	1.0032	1.0007	1.0016	.9971	1.0016	.9999	1.0016	.9988	.9982		
15		1.0014	.9999	.9982	1.0042	1.0020	1.0005	.9972	1.0017	1.0007	1.0028	1.0000	.9994		
16		.9995	.9991	.9977	1.0029	1.0012	1.0011	.9975	1.0009	1.0002	1.0020	.9992	.9987		
17		1.0000	.9991	.9972	1.0024	1.0006	1.0014	.9980	1.0013	.9998	1.0013	.9997	.9991		
18		.9990	.9990	.9971	1.0032	1.0018	1.0014	.9970	1.0014	.9997	1.0014	.9998	.9992		
19		.9986	.9987	.9976	1.0027	1.0023	1.0019	.9975	1.0020	1.0000	1.0009	.9992	.9986		
20		.9985	.9990	.9975	1.0026	1.0022	1.0012	.9974	1.0030	1.0001	1.0008	.9991	.9985		
21		.9990	.9993	.9971	1.0019	1.0027	1.0013	.9968	1.0023	.9998	1.0012	.9996	.9990		
MEAN		.9996	.9989	.9971	1.0037	1.0021	1.0012	.9969	1.0015	1.0001	1.0011	.9993	.9985		
S.D.		.0007	.0006	.0006	.0009	.0010	.0004	.0005	.0007	.0003	.0008	.0004	.0005		

TABLE 2-14

SECOND INTERCOMPARISON - MAY 3, 1979
 RUN 14: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----												MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24		
1	09:55:00	908.2	908.6	905.1	911.4	909.0	909.3	906.0	910.0	907.7	907.0	909.0	907.0	908.19	1.751
2	09:55:30	909.1	909.2	906.0	911.9	910.0	910.3	907.0	911.0	908.9	908.0	910.0	908.0	909.12	1.679
3	09:56:00	910.8	910.6	908.1	912.9	911.0	911.1	908.0	912.0	910.3	909.0	911.0	909.0	910.32	1.511
4	09:56:30	911.7	911.2	908.5	914.3	911.5	912.1	909.0	912.0	910.8	910.0	911.0	910.0	911.01	1.542
5	09:57:00	912.6	912.4	910.2	914.7	912.0	913.0	910.0	913.0	912.1	911.0	912.0	911.0	912.00	1.316
6	09:57:30	913.4	912.9	911.0	915.9	912.0	914.3	911.0	914.0	912.4	912.0	913.0	911.0	912.74	1.502
7	09:58:00	913.4	912.6	910.2	915.7	911.0	914.4	911.0	913.0	912.8	913.0	914.0	912.0	912.76	1.559
8	09:58:30	912.6	912.4	909.3	915.1	910.5	913.4	911.0	914.0	912.1	912.0	913.0	911.0	912.20	1.600
9	09:59:00	912.6	911.9	910.2	914.9	911.0	913.1	910.0	914.0	911.4	911.0	913.0	911.0	912.01	1.525
10	09:59:30	911.7	912.0	909.3	914.0	913.0	912.8	910.0	913.0	911.7	911.0	913.0	911.0	911.87	1.379
11	10:00:00	912.6	912.0	910.2	915.0	913.0	913.0	910.0	914.0	911.8	910.0	913.0	911.0	912.13	1.608
12	10:00:30	912.6	912.1	910.2	914.4	913.0	913.6	910.0	913.0	912.0	912.0	913.0	911.0	912.24	1.322
13	10:01:00	912.6	912.3	909.8	914.8	912.5	913.5	910.0	913.0	911.8	911.0	913.0	911.0	912.11	1.463
14	10:01:30	912.6	912.1	911.0	914.4	913.0	913.9	911.0	914.0	911.8	913.0	913.0	912.0	912.65	1.116
15	10:02:00	914.3	912.5	911.9	917.1	913.0	914.5	912.0	915.0	913.5	913.0	914.0	912.0	913.57	1.526
16	10:02:30	916.0	913.8	913.6	918.3	915.0	916.4	913.0	917.0	915.1	915.0	916.0	915.0	915.35	1.501
17	10:03:00	917.8	915.8	914.4	918.6	917.5	917.8	915.0	918.0	916.8	915.0	918.0	916.0	916.72	1.428
18	10:03:30	916.0	917.0	913.6	917.8	916.0	916.9	914.0	917.0	915.3	915.0	916.0	915.0	915.80	1.273
19	10:04:00	915.2	913.6	911.9	916.5	915.0	915.9	912.0	916.0	914.4	913.0	915.0	913.0	914.29	1.567
20	10:04:30	915.2	914.0	911.9	916.4	914.0	914.7	911.0	916.0	913.5	912.0	914.0	913.0	913.81	1.649
21	10:05:00	913.4	913.2	911.0	915.4	914.0	914.6	911.0	916.0	913.1	912.0	914.0	912.0	913.31	1.606
1		1.0000	1.0004	.9966	1.0035	1.0009	1.0012	.9976	1.0020	.9995	.9987	1.0009	.9987		
2		1.0000	1.0001	.9966	1.0031	1.0010	1.0013	.9977	1.0021	.9998	.9988	1.0010	.9988		
3		1.0005	1.0003	.9976	1.0028	1.0008	1.0009	.9975	1.0018	1.0000	.9986	1.0008	.9986		
4		1.0008	1.0002	.9972	1.0036	1.0005	1.0012	.9978	1.0011	.9998	.9989	1.0000	.9989		
5		1.0007	1.0004	.9980	1.0030	1.0000	1.0011	.9978	1.0011	1.0001	.9989	1.0000	.9989		
6		1.0007	1.0002	.9981	1.0035	.9992	1.0017	.9981	1.0014	.9996	.9992	1.0003	.9981		
7		1.0007	.9998	.9972	1.0032	.9981	1.0018	.9981	1.0003	1.0000	1.0003	1.0014	.9992		
8		1.0004	1.0002	.9968	1.0032	.9981	1.0013	.9987	1.0020	.9999	.9998	1.0009	.9987		
9		1.0006	.9999	.9980	1.0032	.9989	1.0012	.9978	1.0022	.9993	.9989	1.0011	.9989		
10		.9998	1.0001	.9972	1.0023	1.0012	1.0010	.9979	1.0012	.9998	.9990	1.0012	.9990		
11		1.0005	.9999	.9979	1.0031	1.0010	1.0010	.9977	1.0020	.9996	.9977	1.0010	.9968		
12		1.0004	.9998	.9978	1.0024	1.0008	1.0015	.9975	1.0008	.9997	.9997	1.0008	.9986		
13		1.0005	1.0002	.9975	1.0030	1.0004	1.0015	.9977	1.0010	.9997	.9988	1.0010	.9988		
14		.9999	.9994	.9982	1.0019	1.0004	1.0014	.9982	1.0015	.9991	1.0004	1.0004	.9993		
15		1.0008	.9988	.9982	1.0039	.9994	1.0010	.9983	1.0016	.9999	.9994	1.0005	.9983		
16		1.0007	.9983	.9981	1.0032	.9996	1.0011	.9974	1.0018	.9997	.9996	1.0007	.9996		
17		1.0012	.9990	.9975	1.0020	1.0008	1.0012	.9981	1.0014	1.0001	.9981	1.0014	.9992		
18		1.0002	1.0013	.9976	1.0022	1.0002	1.0012	.9980	1.0013	.9995	.9991	1.0002	.9991		
19		1.0010	.9992	.9974	1.0024	1.0008	1.0018	.9975	1.0019	1.0001	.9986	1.0008	.9986		
20		1.0015	1.0002	.9979	1.0028	1.0002	1.0010	.9969	1.0024	.9997	.9980	1.0002	.9991		
21		1.0001	.9999	.9975	1.0023	1.0008	1.0014	.9975	1.0029	.9998	.9986	1.0008	.9986		
MEAN		1.0005	.9999	.9976	1.0029	1.0001	1.0013	.9978	1.0016	.9997	.9990	1.0007	.9988		
S.D.		.0004	.0007	.0005	.0005	.0009	.0003	.0004	.0006	.0003	.0007	.0004	.0003		

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TABLE 2-15

SECOND INTERCOMPARISON - MAY 3, 1979
 RUN 15: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----												MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24		
1	10:25:00	922.5	922.9	919.4	925.8	927.6	924.2	919.5	925.0	922.6	922.0	923.0	922.0	923.04	2.375
2	10:25:30	924.2	924.5	921.0	927.7	928.6	925.7	921.5	926.0	924.6	924.0	925.0	924.0	924.73	2.178
3	10:26:00	925.1	924.8	921.9	927.3	929.6	927.1	922.5	927.0	925.1	925.0	926.0	924.0	925.45	2.139
4	10:26:30	925.1	924.3	921.9	927.7	928.6	926.0	921.5	927.0	924.6	923.0	925.0	924.0	924.89	2.187
5	10:27:00	925.1	925.1	921.9	928.1	929.6	926.2	922.0	927.0	925.0	924.0	926.0	925.0	925.42	2.231
6	10:27:30	919.1	919.5	916.0	922.4	925.1	921.3	918.0	923.0	920.8	918.0	922.0	920.0	920.43	2.521
7	10:28:00	917.3	917.1	914.3	920.8	921.6	918.3	914.0	920.0	917.6	915.0	918.0	916.0	917.50	2.450
8	10:28:30	918.2	917.6	915.1	920.5	922.6	918.6	914.0	921.0	916.9	915.0	918.0	917.0	917.87	2.566
9	10:29:00	917.3	917.8	915.1	921.7	922.6	919.6	915.5	921.0	918.4	915.0	919.0	918.0	918.42	2.517
10	10:29:30	918.2	917.8	916.0	921.7	921.6	920.0	915.0	920.0	918.3	918.0	919.0	917.0	918.55	2.049
11	10:30:00	919.5	919.3	916.8	922.9	923.6	920.3	916.0	921.0	918.5	918.0	919.0	918.0	919.41	2.266
12	10:30:30	918.2	917.7	916.0	919.7	923.6	919.7	915.5	920.0	917.8	917.0	919.0	918.0	918.52	2.140
13	10:31:00	917.3	917.3	915.1	920.1	921.6	918.4	914.5	919.0	916.9	916.0	918.0	916.0	917.52	2.058
14	10:31:30	915.6	915.4	912.6	916.5	918.6	916.4	913.0	916.0	915.3	914.0	916.0	915.0	915.37	1.622
15	10:32:00	917.3	918.2	915.1	919.4	920.6	919.3	916.0	920.0	917.8	918.0	919.0	917.0	918.14	1.628
16	10:32:30	919.1	918.6	916.8	920.6	921.6	920.2	916.0	920.0	918.8	919.0	920.0	918.0	919.06	1.589
17	10:33:00	918.2	917.9	916.0	920.2	921.1	919.9	916.0	920.0	918.8	919.0	919.0	918.0	918.67	1.575
18	10:33:30	917.3	917.9	915.1	919.4	920.1	919.5	915.0	920.0	917.8	917.0	918.0	917.0	917.84	1.713
19	10:34:00	915.6	916.4	914.3	918.1	917.6	918.1	914.0	918.0	916.4	916.0	917.0	916.0	916.46	1.389
20	10:34:30	918.2	917.4	916.0	919.5	919.6	919.2	914.5	920.0	917.3	917.0	918.0	917.0	917.81	1.622
21	10:35:00	919.9	920.0	918.5	922.3	923.6	922.0	918.0	923.0	920.4	921.0	921.0	920.0	920.81	1.701
1		.9994	.9998	.9961	1.0030	1.0049	1.0013	.9962	1.0021	.9995	.9989	1.0000	.9989		
2		.9994	.9997	.9960	1.0032	1.0042	1.0010	.9965	1.0014	.9999	.9992	1.0003	.9992		
3		.9996	.9993	.9962	1.0020	1.0045	1.0018	.9968	1.0017	.9996	.9995	1.0006	.9984		
4		1.0002	.9994	.9968	1.0030	1.0040	1.0012	.9963	1.0023	.9997	.9980	1.0001	.9990		
5		.9997	.9997	.9962	1.0029	1.0045	1.0008	.9963	1.0017	.9995	.9985	1.0006	.9995		
6		.9986	.9990	.9952	1.0021	1.0031	1.0009	.9974	1.0028	1.0004	.9974	1.0017	.9995		
7		.9998	.9996	.9965	1.0036	1.0045	1.0009	.9962	1.0027	1.0001	.9973	1.0005	.9984		
8		1.0004	.9997	.9970	1.0029	1.0031	1.0008	.9958	1.0034	.9989	.9969	1.0001	.9990		
9		.9988	.9993	.9964	1.0036	1.0046	1.0013	.9968	1.0028	1.0000	.9963	1.0006	.9995		
10		.9996	.9992	.9972	1.0034	1.0033	1.0016	.9961	1.0016	.9997	.9994	1.0005	.9983		
11		1.0001	.9999	.9972	1.0038	1.0046	1.0010	.9963	1.0017	.9990	.9985	.9996	.9985		
12		.9997	.9991	.9973	1.0013	1.0035	1.0013	.9967	1.0016	.9992	.9983	1.0005	.9994		
13		.9998	.9998	.9974	1.0028	1.0045	1.0010	.9967	1.0016	.9993	.9983	1.0005	.9983		
14		1.0003	1.0000	.9970	1.0012	1.0035	1.0011	.9974	1.0007	.9999	.9985	1.0007	.9996		
15		.9991	1.0001	.9967	1.0014	1.0027	1.0013	.9977	1.0020	.9996	.9998	1.0009	.9988		
16		1.0000	.9995	.9975	1.0017	1.0028	1.0012	.9967	1.0010	.9997	.9999	1.0010	.9988		
17		.9995	.9992	.9971	1.0017	1.0026	1.0013	.9971	1.0014	1.0001	1.0004	1.0004	.9993		
18		.9994	1.0001	.9970	1.0017	1.0025	1.0018	.9969	1.0024	1.0000	.9991	1.0002	.9991		
19		.9991	.9999	.9976	1.0018	1.0012	1.0018	.9973	1.0017	.9999	.9995	1.0006	.9995		
20		1.0004	.9996	.9980	1.0018	1.0020	1.0015	.9964	1.0024	.9994	.9991	1.0002	.9991		
21		.9990	.9991	.9975	1.0016	1.0030	1.0013	.9970	1.0024	.9996	1.0002	1.0002	.9991		
MEAN		.9996	.9996	.9968	1.0024	1.0038	1.0012	.9967	1.0020	.9997	.9987	1.0005	.9990		
S.D.		.0005	.0003	.0007	.0009	.0012	.0003	.0005	.0007	.0004	.0011	.0004	.0004		

TABLE 2-16

SECOND INTERCOMPARISON - MAY 3, 1979
 RUN 16: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----												MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24		
1	10:46:00	925.1	925.7	921.2	927.5	927.2	926.0	923.0	927.0	925.1	926.0	925.0	924.0	925.23	1.819
2	10:46:30	923.4	924.7	920.4	926.6	927.2	925.0	922.0	926.0	923.8	924.0	924.0	923.0	924.17	1.918
3	10:47:00	923.4	923.9	920.4	927.0	928.7	925.4	921.5	926.0	923.6	924.0	924.0	923.0	924.24	2.278
4	10:47:30	925.1	925.4	921.2	927.0	929.2	926.2	922.5	927.0	924.8	924.0	925.0	924.0	925.12	2.128
5	10:48:00	925.1	925.1	921.6	927.1	927.2	926.3	922.0	927.0	924.4	924.0	925.0	924.0	924.90	1.853
6	10:48:30	927.7	927.8	924.6	931.2	928.7	928.1	925.0	929.0	926.4	926.0	927.0	926.0	927.29	1.858
7	10:49:00	932.0	931.7	928.0	935.9	932.2	932.0	929.0	932.0	929.9	930.0	931.0	930.0	931.14	2.021
8	10:49:30	929.4	928.9	925.4	933.7	931.2	931.1	927.5	931.0	928.7	929.0	929.0	928.0	929.41	2.128
9	10:50:00	929.4	929.4	926.3	934.2	932.2	931.1	927.0	932.0	928.5	928.0	929.0	928.0	929.59	2.342
10	10:50:30	926.7	927.1	923.7	930.5	931.2	929.0	925.0	930.0	927.4	926.0	928.0	926.0	927.55	2.285
11	10:51:00	926.0	926.2	922.1	928.8	928.2	926.8	923.0	926.0	925.1	925.0	925.0	924.0	925.52	1.944
12	10:51:30	926.0	925.9	922.1	927.9	930.2	927.0	923.0	927.0	924.9	926.0	926.0	924.0	925.83	2.181
13	10:52:00	925.1	926.2	922.1	927.6	930.2	926.8	923.0	927.0	925.2	925.0	926.0	924.0	925.68	2.160
14	10:52:30	925.1	925.5	921.2	926.5	929.2	925.6	922.0	927.0	924.4	923.0	925.0	923.0	924.79	2.252
15	10:53:00	923.4	923.0	920.4	924.6	926.1	924.2	920.0	925.0	922.5	921.0	923.0	922.0	922.93	1.876
16	10:53:30	922.5	922.9	919.5	924.5	926.1	923.8	919.5	924.0	921.8	920.0	922.0	921.0	922.30	2.085
17	10:54:00	923.4	923.0	919.5	924.7	927.2	923.8	920.0	924.0	922.3	921.0	922.0	921.0	922.66	2.167
18	10:54:30	922.5	922.3	918.7	923.2	927.2	924.0	919.5	924.0	921.9	921.0	922.0	921.0	922.27	2.237
19	10:55:00	919.9	919.1	916.1	920.7	924.1	920.9	917.0	921.0	918.0	919.0	919.0	917.0	919.32	2.206
20	10:55:30	919.1	918.0	915.3	919.6	924.1	920.2	917.0	920.0	918.2	918.0	919.0	918.0	918.87	2.131
21	10:56:00	919.0	918.7	916.1	919.7	922.1	920.4	916.0	920.0	917.5	918.0	918.0	917.0	918.54	1.816
1		.9999	1.0005	.9956	1.0024	1.0021	1.0008	.9976	1.0019	.9999	1.0008	.9997	.9987		
2		.9992	1.0006	.9959	1.0026	1.0033	1.0009	.9976	1.0020	.9996	.9998	.9998	.9987		
3		.9991	.9996	.9958	1.0030	1.0048	1.0013	.9970	1.0019	.9993	.9997	.9997	.9987		
4		1.0000	1.0003	.9958	1.0020	1.0044	1.0012	.9972	1.0020	.9997	.9988	.9999	.9988		
5		1.0002	1.0002	.9964	1.0024	1.0025	1.0015	.9969	1.0023	.9995	.9990	1.0001	.9990		
6		1.0004	1.0005	.9971	1.0042	1.0015	1.0009	.9975	1.0018	.9990	.9986	.9997	.9986		
7		1.0009	1.0006	.9966	1.0051	1.0011	1.0009	.9977	1.0009	.9987	.9988	.9998	.9988		
8		1.0000	.9995	.9957	1.0046	1.0019	1.0018	.9979	1.0017	.9992	.9996	.9996	.9985		
9		.9998	.9998	.9965	1.0050	1.0028	1.0016	.9972	1.0026	.9988	.9983	.9994	.9983		
10		.9991	.9995	.9958	1.0032	1.0039	1.0016	.9973	1.0026	.9998	.9983	1.0005	.9983		
11		1.0005	1.0007	.9963	1.0035	1.0029	1.0014	.9973	1.0005	.9995	.9994	.9994	.9984		
12		1.0002	1.0001	.9960	1.0022	1.0047	1.0013	.9969	1.0013	.9990	1.0002	1.0002	.9980		
13		.9994	1.0006	.9961	1.0021	1.0049	1.0012	.9971	1.0014	.9995	.9993	1.0003	.9982		
14		1.0003	1.0008	.9961	1.0018	1.0048	1.0009	.9970	1.0024	.9996	.9981	1.0002	.9981		
15		1.0005	1.0001	.9973	1.0018	1.0034	1.0014	.9968	1.0022	.9995	.9979	1.0001	.9990		
16		1.0002	1.0007	.9970	1.0024	1.0041	1.0016	.9970	1.0018	.9995	.9975	.9997	.9986		
17		1.0008	1.0004	.9966	1.0022	1.0049	1.0012	.9971	1.0015	.9996	.9982	.9993	.9982		
18		1.0002	1.0000	.9961	1.0010	1.0053	1.0019	.9970	1.0019	.9996	.9986	.9997	.9986		
19		1.0006	.9998	.9965	1.0015	1.0052	1.0017	.9975	1.0018	.9986	.9997	.9997	.9975		
20		1.0002	.9990	.9961	1.0008	1.0057	1.0014	.9980	1.0012	.9993	.9990	1.0001	.9990		
21		1.0005	1.0002	.9973	1.0013	1.0039	1.0020	.9972	1.0016	.9989	.9994	.9994	.9983		
	MEAN	1.0001	1.0002	.9963	1.0026	1.0037	1.0014	.9973	1.0018	.9993	.9990	.9998	.9985		
	S.D.	.0005	.0005	.0005	.0012	.0013	.0004	.0003	.0005	.0004	.0008	.0003	.0004		

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TABLE : 2-17

SECOND INTERCOMPARISON - MAY 3, 1979
 RUN 17: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----												MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24		
1	11:07:00	917.3	917.4	913.4	919.8	921.1	918.8	914.0	918.0	917.2	917.0	916.0	916.0	917.17	2.191
2	11:07:30	918.2	918.5	914.2	921.1	923.1	920.5	915.5	919.0	918.2	919.0	918.0	916.0	918.44	2.460
3	11:08:00	919.9	919.7	915.9	922.3	924.1	921.7	917.0	921.0	920.0	920.0	919.0	918.0	919.88	2.271
4	11:08:30	919.9	919.9	915.9	922.5	925.1	921.1	916.5	922.0	919.7	919.0	919.0	918.0	919.88	2.567
5	11:09:00	919.9	919.2	915.9	922.2	923.1	921.2	917.0	920.0	920.0	918.0	919.0	918.0	919.46	2.085
6	11:09:30	920.8	920.5	916.8	924.1	925.1	922.2	918.0	921.0	920.5	919.0	920.0	919.0	920.58	2.373
7	11:10:00	919.9	919.9	915.9	923.0	924.1	921.7	917.0	920.0	920.6	919.0	920.0	918.0	919.92	2.332
8	11:10:30	919.0	919.2	915.9	921.4	925.1	920.6	916.0	920.0	919.4	919.0	919.0	918.0	919.38	2.423
9	11:11:00	918.2	917.8	915.1	921.7	922.1	920.0	916.0	919.0	918.8	918.0	918.0	917.0	918.47	2.065
10	11:11:30	917.3	917.2	913.4	921.2	921.1	919.0	915.0	917.0	917.8	916.0	917.0	916.0	917.33	2.273
11	11:12:00	917.3	917.5	914.2	919.6	920.1	919.0	914.0	917.0	916.9	918.0	916.0	916.0	917.13	1.915
12	11:12:30	918.2	917.5	914.2	918.5	922.1	919.7	915.0	919.0	918.0	918.0	917.0	916.0	917.77	2.111
13	11:13:00	918.2	917.5	914.2	919.6	921.1	919.5	916.0	918.0	917.7	918.0	918.0	916.0	917.82	1.830
14	11:13:30	917.3	916.6	913.4	918.7	921.1	918.0	914.5	918.0	917.5	917.0	917.0	916.0	917.09	1.961
15	11:14:00	918.2	918.3	915.1	920.2	922.1	920.1	915.5	919.0	918.2	919.0	918.0	917.0	918.39	1.955
16	11:14:30	918.2	918.4	915.1	920.2	922.1	920.3	916.0	920.0	918.9	918.0	918.0	917.0	918.52	1.958
17	11:15:00	919.0	918.5	915.1	919.5	923.1	920.3	916.0	920.0	918.9	917.0	918.0	917.0	918.53	2.145
18	11:15:30	917.3	917.1	914.2	918.9	921.1	919.3	915.0	917.0	917.8	918.0	917.0	916.0	917.39	1.870
19	11:16:00	916.4	916.3	913.4	918.0	920.1	918.6	914.0	917.0	916.9	917.0	917.0	915.0	916.64	1.870
20	11:16:30	917.3	917.0	914.7	918.1	921.1	918.9	915.0	918.0	917.4	918.0	917.0	916.0	917.37	1.718
21	11:17:00	919.0	919.2	914.7	919.6	923.1	920.7	917.0	920.0	919.0	920.0	919.0	917.0	919.02	2.102
1		1.0001	1.0003	.9959	1.0029	1.0043	1.0018	.9965	1.0009	1.0000	.9998	.9987	.9987		
2		.9997	1.0001	.9954	1.0029	1.0051	1.0022	.9968	1.0006	.9997	1.0006	.9995	.9973		
3		1.0000	.9998	.9957	1.0026	1.0046	1.0020	.9969	1.0012	1.0001	1.0001	.9990	.9980		
4		1.0000	1.0000	.9957	1.0028	1.0057	1.0013	.9963	1.0023	.9998	.9990	.9990	.9980		
5		1.0005	.9997	.9961	1.0030	1.0040	1.0019	.9973	1.0006	1.0006	.9984	.9995	.9984		
6		1.0002	.9999	.9959	1.0038	1.0049	1.0018	.9972	1.0005	.9999	.9983	.9994	.9983		
7		1.0000	1.0000	.9956	1.0033	1.0045	1.0019	.9968	1.0001	1.0007	.9990	1.0001	.9979		
8		.9996	.9998	.9962	1.0022	1.0062	1.0013	.9963	1.0007	1.0000	.9996	.9996	.9985		
9		.9997	.9993	.9963	1.0035	1.0039	1.0017	.9973	1.0006	1.0004	.9995	.9995	.9984		
10		1.0000	.9999	.9957	1.0042	1.0041	1.0018	.9975	.9996	1.0005	.9985	.9996	.9985		
11		1.0002	1.0004	.9968	1.0027	1.0032	1.0020	.9966	.9999	.9997	1.0009	.9988	.9988		
12		1.0005	.9997	.9961	1.0008	1.0047	1.0021	.9970	1.0013	1.0003	1.0003	.9992	.9981		
13		1.0004	.9997	.9961	1.0019	1.0036	1.0018	.9980	1.0002	.9999	1.0002	1.0002	.9980		
14		1.0002	.9995	.9960	1.0018	1.0044	1.0010	.9972	1.0010	1.0004	.9999	.9999	.9988		
15		.9998	.9999	.9964	1.0020	1.0040	1.0019	.9969	1.0007	.9998	1.0007	.9996	.9985		
16		.9997	.9999	.9963	1.0018	1.0039	1.0019	.9973	1.0016	1.0004	.9994	.9994	.9983		
17		1.0005	1.0000	.9963	1.0011	1.0050	1.0019	.9972	1.0016	1.0004	.9983	.9994	.9983		
18		.9999	.9997	.9965	1.0016	1.0040	1.0021	.9974	.9996	1.0004	1.0007	.9996	.9985		
19		.9997	.9996	.9965	1.0015	1.0038	1.0021	.9971	1.0004	1.0003	1.0004	1.0004	.9982		
20		.9999	.9996	.9971	1.0008	1.0041	1.0017	.9974	1.0007	1.0000	1.0007	.9996	.9985		
21		1.0000	1.0002	.9953	1.0006	1.0044	1.0018	.9978	1.0011	1.0000	1.0011	1.0000	.9978		
MEAN		1.0000	.9998	.9961	1.0023	1.0044	1.0018	.9971	1.0007	1.0002	.9998	.9995	.9983		
S.D.		.0003	.0003	.0004	.0010	.0007	.0003	.0004	.0007	.0003	.0009	.0004	.0004		

TABLE 2-18

SECOND INTERCOMPARISON - MAY 3, 1979
 RUN 18: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----												MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24		
1	11:30:00	913.1	914.7	910.3	917.4	917.0	916.4	913.0	916.0	914.9	915.0	915.0	914.0	914.73	1.969
2	11:30:30	912.2	912.8	908.7	916.3	912.0	914.0	910.0	914.0	912.7	912.0	912.0	911.0	912.31	1.964
3	11:31:00	915.7	915.1	912.0	919.8	915.0	916.6	912.0	916.0	914.8	916.0	914.0	914.0	915.08	2.090
4	11:31:30	916.5	916.1	912.0	920.0	916.0	917.3	913.0	917.0	916.0	915.0	915.0	915.0	915.74	2.048
5	11:32:00	914.8	913.1	909.5	916.8	914.0	914.9	912.0	916.0	913.7	912.0	914.0	912.0	913.57	2.004
6	11:32:30	907.9	908.5	904.4	912.6	911.0	909.8	906.0	911.0	908.4	906.0	908.0	907.0	908.38	2.393
7	11:33:00	904.4	904.5	900.2	908.3	906.0	905.0	901.0	905.0	903.5	902.0	903.0	902.0	903.74	2.272
8	11:33:30	900.1	900.0	896.0	904.5	902.9	901.6	898.0	901.0	899.9	900.0	900.0	898.0	900.17	2.254
9	11:34:00	897.5	897.5	894.3	902.0	899.9	899.2	896.0	899.0	897.5	897.0	898.0	896.0	897.82	2.025
10	11:34:30	896.6	897.3	893.4	902.5	898.9	898.5	895.0	899.0	897.3	896.0	897.0	896.0	897.29	2.304
11	11:35:00	893.2	893.6	890.9	898.6	895.9	898.5	892.0	896.0	893.8	894.0	894.0	892.0	894.37	2.445
12	11:35:30	894.0	893.5	889.2	896.7	892.9	895.1	891.0	894.0	893.1	893.0	893.0	892.0	893.12	1.898
13	11:36:00	894.0	893.8	890.0	896.5	894.9	896.0	892.5	894.0	893.3	894.0	894.0	892.0	893.75	1.734
14	11:36:30	894.9	894.0	891.7	897.1	895.9	896.6	892.0	897.0	892.8	895.0	894.0	892.0	894.42	1.987
15	11:37:00	896.6	896.0	892.6	898.5	898.9	897.9	893.5	897.0	894.8	897.0	895.0	894.0	895.98	2.020
16	11:37:30	897.5	898.1	896.0	900.3	898.9	900.3	896.0	901.0	897.3	900.0	897.0	896.0	898.20	1.850
17	11:38:00	904.4	902.3	901.0	905.1	902.9	903.8	899.0	904.0	900.5	903.0	901.0	900.0	902.25	1.931
18	11:38:30	912.2	901.9	908.7	913.9	913.0	912.3	908.0	913.0	908.8	911.0	909.0	908.0	909.98	3.331
19	11:39:00	914.8	913.8	911.2	916.2	917.0	915.5	911.5	916.0	913.3	913.0	913.0	913.0	914.02	1.867
20	11:39:30	918.2	918.3	915.4	920.7	921.0	919.8	915.0	921.0	916.5	917.0	917.0	917.0	918.07	2.124
21	11:40:00	917.4	917.5	913.7	920.7	920.0	919.1	916.0	920.0	917.4	916.0	918.0	917.0	917.73	2.002
1		.9982	1.0000	.9952	1.0029	1.0025	1.0018	.9981	1.0014	1.0002	1.0003	1.0003	.9992		
2		.9999	1.0005	.9960	1.0044	.9997	1.0019	.9975	1.0019	1.0004	.9997	.9997	.9986		
3		1.0007	1.0000	.9966	1.0052	.9999	1.0017	.9966	1.0010	.9997	1.0010	.9988	.9988		
4		1.0008	1.0004	.9959	1.0047	1.0003	1.0017	.9970	1.0014	1.0003	.9992	.9992	.9992		
5		1.0014	.9995	.9955	1.0035	1.0005	1.0015	.9983	1.0027	1.0001	.9983	1.0005	.9983		
6		.9995	1.0001	.9956	1.0046	1.0029	1.0016	.9974	1.0029	1.0000	.9974	.9996	.9985		
7		1.0007	1.0008	.9961	1.0050	1.0025	1.0014	.9970	1.0014	.9997	.9981	.9992	.9981		
8		.9999	.9998	.9954	1.0048	1.0030	1.0016	.9976	1.0009	.9997	.9998	.9998	.9976		
9		.9996	.9996	.9961	1.0047	1.0023	1.0015	.9980	1.0013	.9996	.9991	1.0002	.9980		
10		.9992	1.0000	.9957	1.0058	1.0018	1.0013	.9974	1.0019	1.0000	.9986	.9997	.9986		
11		.9987	.9991	.9961	1.0047	1.0017	1.0046	.9973	1.0018	.9994	.9996	.9996	.9973		
12		1.0010	1.0004	.9956	1.0040	.9997	1.0022	.9976	1.0010	1.0000	.9999	.9999	.9987		
13		1.0003	1.0001	.9958	1.0031	1.0013	1.0025	.9986	1.0003	.9995	1.0003	1.0003	.9980		
14		1.0005	.9995	.9970	1.0030	1.0017	1.0024	.9973	1.0029	.9982	1.0007	.9995	.9973		
15		1.0007	1.0000	.9962	1.0028	1.0033	1.0021	.9972	1.0011	.9987	1.0011	.9989	.9978		
16		.9992	.9999	.9976	1.0023	1.0008	1.0023	.9976	1.0031	.9990	1.0020	.9987	.9976		
17		1.0024	1.0001	.9986	1.0032	1.0007	1.0017	.9964	1.0019	.9981	1.0008	.9986	.9975		
18		1.0024	.9911	.9986	1.0043	1.0033	1.0025	.9978	1.0033	.9987	1.0011	.9989	.9978		
19		1.0008	.9998	.9969	1.0024	1.0033	1.0016	.9972	1.0022	.9992	.9989	.9989	.9989		
20		1.0001	1.0002	.9971	1.0029	1.0032	1.0019	.9967	1.0032	.9983	.9988	.9988	.9988		
21		.9996	.9997	.9956	1.0032	1.0025	1.0015	.9981	1.0025	.9996	.9981	1.0003	.9992		
MEAN		1.0003	.9996	.9963	1.0039	1.0017	1.0020	.9975	1.0019	.9994	.9996	.9995	.9983		
S.D.		.0011	.0020	.0010	.0010	.0013	.0007	.0006	.0009	.0007	.0012	.0006	.0006		

TABLE 2-19

SECOND INTERCOMPARISON - MAY 3, 1979
 RUN 19: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----												MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24		
1	11:52:00	917.7	916.1	914.5	917.8	922.3	917.4	912.0	918.0	914.6	915.0	915.0	915.0	916.28	2.594
2	11:52:30	922.9	922.6	920.4	923.9	926.4	923.4	919.0	924.0	921.6	921.0	922.0	922.0	922.43	1.920
3	11:53:00	922.9	923.0	920.4	923.5	928.4	924.0	920.0	925.0	922.6	921.0	922.0	922.0	922.98	2.243
4	11:53:30	924.7	924.3	922.1	924.6	930.4	925.5	921.0	927.0	923.6	924.0	924.0	923.0	924.52	2.407
5	11:54:00	923.8	923.8	920.4	924.9	929.4	924.5	920.0	927.0	923.2	921.0	923.0	923.0	923.67	2.673
6	11:54:30	920.3	919.8	917.0	920.3	925.4	920.6	917.0	922.0	919.9	917.0	920.0	918.0	919.77	2.415
7	11:55:00	919.5	919.3	917.0	920.1	924.4	921.0	916.0	920.0	919.2	918.0	919.0	918.0	919.29	2.126
8	11:55:30	918.6	918.2	915.3	918.3	924.4	919.4	915.0	920.0	917.6	918.0	918.0	917.0	918.32	2.406
9	11:56:00	917.7	917.9	915.3	919.4	922.3	919.7	915.0	918.0	917.0	919.0	918.0	917.0	918.02	1.971
10	11:56:30	919.5	919.2	917.0	920.3	922.3	920.8	916.5	920.0	917.9	920.0	919.0	918.0	919.21	1.653
11	11:57:00	919.5	919.6	916.2	920.7	924.4	921.9	918.0	921.0	919.7	920.0	921.0	919.0	920.08	2.030
12	11:57:30	918.2	918.4	916.2	919.6	924.4	919.6	916.0	921.0	917.9	919.0	919.0	918.0	918.94	2.213
13	11:58:00	920.3	920.9	918.7	921.4	926.4	921.7	917.0	923.0	918.9	920.0	919.0	919.0	920.52	2.455
14	11:58:30	920.3	920.8	917.9	921.3	925.4	922.0	919.0	922.0	920.3	921.0	921.0	920.0	920.92	1.834
15	11:59:00	919.5	919.1	916.2	919.7	923.3	919.9	916.0	921.0	917.6	918.0	919.0	918.0	918.94	2.018
16	11:59:30	918.6	917.9	916.2	919.1	923.3	919.6	916.0	920.0	916.9	918.0	919.0	917.0	918.47	2.002
17	12:00:00	922.9	923.0	920.4	923.7	926.4	923.4	919.5	924.0	920.9	923.0	923.0	921.0	922.60	1.876
18	12:00:30	922.9	923.3	920.4	924.2	926.4	924.6	921.0	924.0	922.5	923.0	924.0	922.0	923.19	1.630
19	12:01:00	922.9	924.2	922.1	925.6	928.4	924.9	921.0	926.0	922.8	923.0	924.0	923.0	923.99	2.001
20	12:01:30	925.5	925.3	923.8	926.3	930.4	926.9	922.5	927.0	925.0	925.0	926.0	925.0	925.72	1.935
21	12:02:00	924.7	925.1	923.0	926.4	929.4	926.2	922.5	927.0	924.3	924.0	926.0	924.0	925.22	1.908
1		1.0015	.9998	.9981	1.0017	1.0066	1.0012	.9953	1.0019	.9982	.9986	.9986	.9986		
2		1.0005	1.0002	.9978	1.0016	1.0043	1.0010	.9963	1.0017	.9991	.9984	.9995	.9995		
3		.9999	1.0000	.9972	1.0006	1.0059	1.0011	.9968	1.0022	.9996	.9979	1.0000	.9989		
4		1.0002	.9998	.9974	1.0001	1.0064	1.0011	.9962	1.0027	.9990	.9994	.9994	.9984		
5		1.0001	1.0001	.9965	1.0013	1.0062	1.0009	.9960	1.0036	.9995	.9971	.9993	.9993		
6		1.0006	1.0000	.9970	1.0006	1.0061	1.0009	.9970	1.0024	1.0061	.9970	1.0002	.9981		
7		1.0002	1.0000	.9975	1.0009	1.0056	1.0019	.9964	1.0008	.9999	.9986	.9997	.9986		
8		1.0003	.9999	.9967	1.0000	1.0066	1.0012	.9964	1.0018	.9992	.9997	.9997	.9986		
9		.9996	.9999	.9970	1.0015	1.0047	1.0018	.9967	1.0000	.9989	1.0011	1.0000	.9989		
10		1.0003	1.0000	.9976	1.0012	1.0034	1.0017	.9971	1.0009	.9986	1.0009	.9998	.9987		
11		.9994	.9995	.9958	1.0007	1.0047	1.0020	.9977	1.0010	.9996	.9999	1.0010	.9988		
12		.9992	.9994	.9970	1.0007	1.0059	1.0007	.9968	1.0022	.9989	1.0001	1.0001	.9990		
13		.9998	1.0004	.9980	1.0010	1.0064	1.0013	.9962	1.0027	.9982	.9994	.9983	.9983		
14		.9993	.9999	.9967	1.0004	1.0049	1.0012	.9979	1.0012	.9993	1.0001	1.0001	.9990		
15		1.0006	1.0002	.9970	1.0008	1.0047	1.0010	.9968	1.0022	.9985	.9990	1.0001	.9990		
16		1.0001	.9994	.9975	1.0007	1.0053	1.0012	.9973	1.0017	.9983	.9995	1.0006	.9984		
17		1.0003	1.0004	.9976	1.0012	1.0041	1.0009	.9966	1.0015	.9982	1.0004	1.0004	.9983		
18		.9997	1.0001	.9970	1.0011	1.0035	1.0015	.9976	1.0009	.9993	.9998	1.0009	.9987		
19		.9988	1.0002	.9980	1.0017	1.0048	1.0010	.9968	1.0022	.9987	.9989	1.0000	.9989		
20		.9998	.9995	.9979	1.0006	1.0051	1.0013	.9965	1.0014	.9992	.9992	1.0003	.9992		
21		.9994	.9999	.9976	1.0013	1.0045	1.0011	.9971	1.0019	.9990	.9987	1.0008	.9987		
MEAN		1.0000	.9999	.9973	1.0009	1.0052	1.0012	.9967	1.0018	.9990	.9992	.9999	.9988		
S.D.		.0006	.0003	.0006	.0005	.0010	.0004	.0006	.0008	.0006	.0011	.0007	.0004		

TABLE 2-20

SECOND INTERCOMPARISON - MAY 3, 1979
 RUN 20: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----												MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24		
1	12:12:00	923.5	923.6	920.5	926.0	930.8	925.8	921.0	928.0	924.9	924.0	924.0	922.0	924.51	2.905
2	12:12:30	921.8	923.5	918.8	925.0	927.7	923.8	919.0	925.0	923.0	923.0	923.0	922.0	922.97	2.469
3	12:13:00	923.5	924.5	920.5	925.8	929.7	925.5	920.5	927.0	924.6	926.0	924.0	923.0	924.55	2.589
4	12:13:30	927.0	927.0	923.9	929.5	932.8	927.4	923.0	929.0	926.4	927.0	926.0	925.0	927.00	2.612
5	12:14:00	927.8	927.8	924.8	931.7	933.8	929.2	924.0	930.0	928.4	929.0	927.0	927.0	928.37	2.706
6	12:14:30	928.7	928.2	925.6	931.3	933.8	930.0	925.5	930.0	928.7	930.0	928.0	927.0	928.90	2.352
7	12:15:00	928.7	927.3	924.8	929.1	930.8	928.8	924.0	930.0	928.0	929.0	927.0	926.0	927.79	2.054
8	12:15:30	929.6	928.8	925.6	931.0	932.8	930.3	925.5	931.0	928.3	931.0	928.0	928.0	929.16	2.226
9	12:16:00	930.4	930.6	927.3	932.1	935.8	931.6	927.0	934.0	930.0	931.0	930.0	929.0	930.73	2.504
10	12:16:30	931.4	931.0	928.1	933.4	936.8	932.4	928.0	935.0	931.2	932.0	931.0	930.0	931.69	2.545
11	12:17:00	930.4	929.9	926.4	931.6	936.8	931.2	926.0	933.0	930.7	930.0	930.0	929.0	930.42	2.825
12	12:17:30	929.6	929.4	926.4	931.2	935.8	930.3	926.0	932.0	929.5	929.0	930.0	928.0	929.77	2.580
13	12:18:00	927.0	927.1	923.9	929.7	932.8	928.3	925.0	930.0	928.4	927.0	929.0	926.0	927.85	2.403
14	12:18:30	925.2	925.3	922.2	927.6	931.8	926.3	922.0	928.0	925.8	925.0	925.0	924.0	925.68	2.641
15	12:19:00	923.5	924.2	920.5	925.7	928.7	925.9	921.0	924.0	924.4	927.0	924.0	922.0	924.24	2.385
16	12:19:30	921.8	922.6	919.7	924.8	927.7	924.3	920.5	925.0	923.0	925.0	924.0	922.0	923.37	2.219
17	12:20:00	918.2	919.0	916.3	921.6	923.7	920.6	917.0	922.0	919.4	920.0	920.0	918.0	919.65	2.141
18	12:20:30	919.2	919.6	917.1	921.1	926.7	920.6	916.0	923.0	919.6	919.0	920.0	918.0	919.99	2.793
19	12:21:00	919.2	918.6	916.3	921.3	923.7	920.1	915.5	920.0	918.7	920.0	919.0	918.0	919.20	2.152
20	12:21:30	920.1	920.9	917.1	921.7	925.7	921.9	917.5	923.0	920.7	921.0	921.0	919.0	920.80	2.321
21	12:22:00	920.1	920.8	918.0	922.8	925.7	922.0	917.5	924.0	921.0	921.0	920.0	919.0	920.99	2.382
1		.9989	.9990	.9957	1.0016	1.0068	1.0014	.9962	1.0038	1.0004	.9995	.9995	.9973		
2		.9987	1.0006	.9955	1.0022	1.0051	1.0009	.9957	1.0022	1.0000	1.0000	1.0000	.9990		
3		.9989	.9999	.9956	1.0014	1.0056	1.0010	.9956	1.0026	1.0001	1.0016	.9994	.9983		
4		1.0000	1.0000	.9967	1.0027	1.0063	1.0004	.9957	1.0022	.9994	1.0000	.9989	.9978		
5		.9994	.9994	.9961	1.0036	1.0058	1.0009	.9953	1.0018	1.0000	1.0007	.9985	.9985		
6		.9998	.9992	.9964	1.0026	1.0053	1.0012	.9963	1.0012	.9998	1.0012	.9990	.9980		
7		1.0010	.9995	.9968	1.0014	1.0032	1.0011	.9959	1.0024	1.0002	1.0013	.9991	.9981		
8		1.0005	.9996	.9962	1.0020	1.0039	1.0012	.9961	1.0020	.9991	1.0020	.9988	.9988		
9		.9996	.9999	.9963	1.0015	1.0054	1.0009	.9960	1.0035	.9992	1.0003	.9992	.9981		
10		.9997	.9993	.9961	1.0018	1.0055	1.0008	.9960	1.0036	.9995	1.0003	.9993	.9982		
11		1.0000	.9994	.9957	1.0013	1.0069	1.0008	.9953	1.0028	1.0003	.9996	.9996	.9985		
12		.9998	.9996	.9964	1.0015	1.0065	1.0006	.9959	1.0024	.9997	.9992	1.0003	.9981		
13		.9991	.9992	.9957	1.0020	1.0053	1.0005	.9969	1.0023	1.0006	.9991	1.0012	.9980		
14		.9995	.9996	.9962	1.0021	1.0066	1.0007	.9960	1.0025	1.0001	.9993	.9993	.9982		
15		.9992	1.0000	.9960	1.0016	1.0048	1.0018	.9965	.9997	1.0002	1.0030	.9997	.9976		
16		.9983	.9992	.9960	1.0016	1.0047	1.0010	.9969	1.0018	.9996	1.0018	1.0007	.9985		
17		.9984	.9993	.9964	1.0021	1.0044	1.0010	.9971	1.0026	.9997	1.0004	1.0004	.9982		
18		.9991	.9996	.9969	1.0012	1.0073	1.0007	.9957	1.0033	.9996	.9989	1.0000	.9978		
19		1.0000	.9993	.9968	1.0023	1.0049	1.0010	.9960	1.0009	.9995	1.0009	.9998	.9987		
20		.9992	1.0001	.9960	1.0010	1.0053	1.0012	.9964	1.0024	.9999	1.0002	1.0002	.9980		
21		.9990	.9998	.9968	1.0020	1.0051	1.0011	.9962	1.0033	1.0000	1.0000	.9989	.9978		
MEAN		.9994	.9996	.9962	1.0019	1.0055	1.0010	.9961	1.0023	.9998	1.0004	.9996	.9982		
S.D.		.0007	.0004	.0004	.0006	.0010	.0003	.0005	.0010	.0004	.0011	.0007	.0004		

TABLE 2-21

SECOND INTERCOMPARISON - MAY 3, 1979
 RUN 21: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----												MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24		
1	12:33:00	933.7	933.8	930.4	936.9	936.3	934.8	931.0	937.0	932.7	933.0	933.0	932.0	933.72	2.178
2	12:33:30	934.5	935.5	932.1	938.7	937.3	936.3	933.0	938.0	934.7	934.0	935.0	934.0	935.26	1.997
3	12:34:00	935.4	936.5	933.8	939.6	938.3	937.1	933.5	938.0	935.3	936.0	936.0	935.0	936.21	1.812
4	12:34:30	932.8	933.2	929.6	936.7	936.3	935.1	932.0	936.0	933.9	933.0	934.0	932.0	933.72	2.073
5	12:35:00	930.2	931.5	927.9	935.6	932.3	932.2	928.5	933.0	930.8	930.0	931.0	930.0	931.08	2.067
6	12:35:30	930.2	930.4	927.9	935.5	930.3	931.7	928.0	932.0	929.6	930.0	930.0	929.0	930.38	2.028
7	12:36:00	930.2	931.0	927.9	935.8	931.3	931.8	928.0	933.0	930.3	930.0	930.0	929.0	930.69	2.182
8	12:36:30	930.2	931.0	928.7	936.1	932.3	932.1	928.0	933.0	930.1	931.0	930.0	929.0	930.96	2.208
9	12:37:00	928.5	928.3	925.3	933.6	930.3	929.6	925.0	931.0	928.0	928.0	928.0	927.0	928.55	2.378
10	12:37:30	926.7	927.2	925.3	931.7	930.3	928.2	924.0	929.0	926.6	926.0	927.0	926.0	927.33	2.159
11	12:38:00	926.7	927.9	924.5	932.3	930.3	928.5	924.0	930.0	927.1	927.0	927.0	926.0	927.61	2.392
12	12:38:30	926.7	926.9	923.7	929.9	930.3	927.8	923.0	929.0	926.4	926.0	926.0	925.0	926.72	2.264
13	12:39:00	926.7	927.5	925.3	930.2	932.3	928.5	924.0	930.0	926.9	927.0	927.0	926.0	927.62	2.301
14	12:39:30	924.2	924.2	922.0	927.2	928.3	925.5	921.0	926.0	924.2	924.0	924.0	923.0	924.47	2.056
15	12:40:00	923.3	923.4	921.1	925.8	926.3	924.3	920.0	924.0	922.7	924.0	923.0	922.0	923.32	1.786
16	12:40:30	923.3	923.5	920.3	925.6	927.3	924.7	920.0	925.0	922.6	925.0	923.0	922.0	923.52	2.145
17	12:41:00	921.6	924.5	920.3	924.5	925.2	924.3	919.5	925.0	921.8	925.0	922.0	921.0	922.89	2.063
18	12:41:30	919.8	920.5	917.7	923.1	925.2	922.2	918.0	923.0	920.2	922.0	921.0	919.0	920.97	2.230
19	12:42:00	920.7	920.7	918.6	922.0	922.2	922.9	918.0	922.0	920.2	925.0	921.0	919.0	921.02	1.968
20	12:42:30	918.1	918.8	916.0	920.6	920.2	920.5	916.0	920.0	918.2	922.0	919.0	917.0	918.87	1.896
21	12:43:00	918.1	918.7	916.0	919.1	921.2	920.3	916.0	920.0	917.6	921.0	919.0	917.0	918.67	1.785
1		1.0000	1.0001	.9964	1.0034	1.0028	1.0012	.9971	1.0035	.9989	.9992	.9992	.9982		
2		.9992	1.0003	.9966	1.0037	1.0022	1.0011	.9976	1.0029	.9994	.9987	.9997	.9987		
3		.9991	1.0003	.9974	1.0036	1.0022	1.0010	.9971	1.0019	.9990	.9998	.9998	.9987		
4		.9990	.9994	.9956	1.0032	1.0028	1.0015	.9982	1.0024	1.0002	.9992	1.0003	.9982		
5		.9991	1.0004	.9966	1.0049	1.0013	1.0012	.9972	1.0021	.9997	.9988	.9999	.9988		
6		.9998	1.0000	.9973	1.0055	.9999	1.0014	.9974	1.0017	.9992	.9996	.9996	.9985		
7		.9995	1.0003	.9970	1.0055	1.0007	1.0012	.9971	1.0025	.9996	.9993	.9993	.9982		
8		.9992	1.0000	.9976	1.0055	1.0014	1.0012	.9968	1.0022	.9991	1.0000	.9990	.9979		
9		.9999	.9997	.9965	1.0054	1.0019	1.0011	.9962	1.0026	.9994	.9994	.9994	.9983		
10		.9993	.9999	.9978	1.0047	1.0032	1.0009	.9964	1.0018	.9992	.9996	.9996	.9986		
11		.9990	1.0003	.9966	1.0051	1.0029	1.0010	.9961	1.0026	.9995	.9993	.9993	.9983		
12		1.0000	1.0002	.9967	1.0034	1.0039	1.0012	.9960	1.0025	.9996	.9992	.9992	.9981		
13		.9990	.9999	.9975	1.0028	1.0050	1.0010	.9961	1.0026	.9992	.9993	.9993	.9983		
14		.9997	.9997	.9973	1.0030	1.0041	1.0011	.9963	1.0017	.9997	.9995	.9995	.9984		
15		1.0000	1.0001	.9976	1.0027	1.0032	1.0011	.9964	1.0007	.9993	1.0007	.9996	.9986		
16		.9998	1.0010	.9965	1.0022	1.0041	1.0013	.9962	1.0016	.9990	1.0016	.9994	.9983		
17		.9986	1.0017	.9972	1.0017	1.0025	1.0015	.9963	1.0023	.9988	1.0023	.9990	.9980		
18		.9987	.9995	.9964	1.0023	1.0046	1.0013	.9968	1.0022	.9992	1.0011	1.0000	.9979		
19		.9996	.9996	.9974	1.0011	1.0013	1.0020	.9967	1.0011	.9991	1.0023	1.0000	.9978		
20		.9992	.9999	.9969	1.0019	1.0015	1.0018	.9969	1.0012	.9993	1.0024	1.0001	.9980		
21		.9994	1.0010	.9971	1.0005	1.0028	1.0018	.9971	1.0015	.9988	1.0025	1.0004	.9982		
MEAN		.9994	1.0011	.9970	1.0034	1.0026	1.0013	.9968	1.0021	.9993	1.0023	.9996	.9983		
S.D.		.0004	.0005	.0005	.0015	.0013	.0003	.0006	.0007	.0003	.0016	.0004	.0003		

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TABLE 2-22

SECOND INTERCOMPARISON - MAY 3, 1979
 RUN 22: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER												MEAN	S.D.
		5	6	7	8	11	13	17	18	19	20	22	24		
1	13:05:00	906.8	908.9	905.4	913.7	910.9	910.5	908.0	910.0	907.9	909.0	909.0	908.0	909.01	2.131
2	13:05:30	906.8	907.5	904.5	911.9	910.9	908.8	906.0	911.0	906.6	901.0	907.0	907.0	907.42	3.016
3	13:06:00	905.9	906.4	903.7	911.3	912.9	907.6	904.0	910.0	905.8	906.0	906.0	906.0	907.13	2.834
4	13:06:30	908.5	909.5	905.4	913.1	914.9	908.5	905.0	911.0	907.1	907.0	907.0	907.0	908.67	3.009
5	13:07:00	908.5	908.6	905.4	913.0	915.9	909.4	906.0	912.0	908.2	908.0	907.0	907.0	909.08	3.085
6	13:07:30	908.5	908.9	906.2	912.9	916.9	909.6	906.5	913.0	908.2	907.0	908.0	908.0	909.47	3.195
7	13:08:00	910.2	911.3	908.8	913.5	918.9	911.1	907.0	914.0	909.1	909.0	909.0	909.0	910.91	3.230
8	13:08:30	911.9	913.6	910.5	916.3	922.0	913.7	911.0	915.0	912.7	912.0	912.0	912.0	913.56	3.127
9	13:09:00	911.1	911.1	908.8	916.1	919.9	912.2	909.0	915.0	911.0	910.0	910.0	911.0	912.10	3.289
10	13:09:30	911.1	910.9	907.9	915.5	918.9	912.0	909.0	914.0	911.1	910.0	910.0	910.0	911.70	3.066
11	13:10:00	910.2	910.9	908.8	914.3	918.9	911.9	908.0	913.0	910.3	909.0	909.0	909.0	911.11	3.089
12	13:10:30	906.8	907.1	904.5	910.2	915.9	908.9	905.0	908.0	907.1	908.0	906.0	906.0	907.79	3.013
13	13:11:00	909.3	909.6	907.1	912.3	916.9	910.7	907.0	911.0	908.7	910.0	908.0	908.0	909.88	2.730
14	13:11:30	910.2	910.9	908.8	912.3	917.9	912.7	910.0	913.0	910.4	912.0	910.0	909.0	911.43	2.464
15	13:12:00	910.2	911.0	908.8	912.3	915.9	912.4	909.0	913.0	909.6	913.0	910.0	909.0	911.18	2.168
16	13:12:30	908.5	909.7	907.1	910.7	913.9	912.3	910.0	911.0	909.1	913.0	910.0	909.0	910.36	1.954
17	13:13:00	911.1	911.6	908.8	912.8	915.9	913.1	911.0	914.0	910.2	913.0	911.0	910.0	911.87	1.962
18	13:13:30	911.9	913.3	910.5	912.6	916.9	914.9	912.0	915.0	911.7	917.0	913.0	912.0	913.40	2.095
19	13:14:00	914.5	915.3	912.2	916.2	917.9	916.9	914.0	917.0	913.6	919.0	914.0	914.0	915.38	2.019
20	13:14:30	914.5	915.8	913.0	915.9	917.9	917.8	915.5	919.0	915.0	920.0	916.0	915.0	916.28	2.010
21	13:15:00	914.5	915.6	913.9	915.9	918.9	917.9	915.0	919.0	914.7	920.0	916.0	914.0	916.28	2.123
1		.9976	.9999	.9960	1.0052	1.0021	1.0016	.9989	1.0011	.9988	1.0000	1.0000	.9989		
2		.9993	1.0001	.9968	1.0049	1.0038	1.0015	.9984	1.0039	.9991	.9929	.9995	.9995		
3		.9986	.9992	.9962	1.0046	1.0064	1.0005	.9965	1.0032	.9985	.9988	.9988	.9988		
4		.9998	1.0009	.9964	1.0049	1.0069	.9998	.9960	1.0026	.9983	.9982	.9982	.9982		
5		.9994	.9995	.9959	1.0043	1.0075	1.0003	.9966	1.0032	.9990	.9988	.9977	.9977		
6		.9989	.9994	.9964	1.0038	1.0082	1.0001	.9967	1.0039	.9986	.9973	.9984	.9984		
7		.9992	1.0004	.9977	1.0028	1.0088	1.0002	.9957	1.0034	.9980	.9979	.9979	.9979		
8		.9982	1.0000	.9967	1.0030	1.0092	1.0002	.9972	1.0016	.9991	.9983	.9983	.9983		
9		.9989	.9989	.9964	1.0044	1.0086	1.0001	.9966	1.0032	.9988	.9977	.9977	.9977		
10		.9993	.9991	.9958	1.0042	1.0079	1.0003	.9970	1.0025	.9993	.9981	.9981	.9981		
11		.9990	.9998	.9975	1.0035	1.0086	1.0009	.9966	1.0021	.9991	.9977	.9977	.9977		
12		.9989	.9992	.9964	1.0027	1.0089	1.0012	.9969	1.0002	.9992	1.0002	.9980	.9980		
13		.9994	.9997	.9969	1.0027	1.0077	1.0009	.9968	1.0012	.9987	1.0001	.9979	.9979		
14		.9986	.9994	.9971	1.0010	1.0071	1.0014	.9984	1.0017	.9989	1.0006	.9984	.9973		
15		.9989	.9998	.9974	1.0012	1.0052	1.0013	.9976	1.0020	.9983	1.0020	.9987	.9976		
16		.9980	.9993	.9964	1.0004	1.0039	1.0021	.9996	1.0007	.9986	1.0029	.9996	.9985		
17		.9992	.9997	.9966	1.0010	1.0044	1.0013	.9990	1.0023	.9982	1.0012	.9990	.9979		
18		.9984	.9999	.9968	.9991	1.0038	1.0016	.9985	1.0018	.9981	1.0039	.9996	.9985		
19		.9990	.9999	.9965	1.0009	1.0027	1.0017	.9985	1.0018	.9981	1.0040	.9985	.9985		
20		.9981	.9995	.9964	.9996	1.0018	1.0017	.9991	1.0030	.9986	1.0041	.9997	.9986		
21		.9981	.9993	.9974	.9996	1.0029	1.0018	.9986	1.0030	.9983	1.0041	.9997	.9975		
MEAN		.9988	.9997	.9967	1.0026	1.0060	1.0010	.9976	1.0023	.9986	.9999	.9986	.9982		
S.D.		.0006	.0005	.0005	.0020	.0025	.0007	.0012	.0010	.0004	.0009	.0008	.0005		

SECOND INTERCOMPARISON - MAY 2-3, 1979
SUMMARY OF EACH INSTRUMENT RELATIVE TO MEAN OF ALL INSTRUMENTS

RUN NO.	-----INSTRUMENT IDENTIFICATION NUMBER-----											
	5	6	7	8	11	13	17	18	19	20	22	24
1	1.0017	.9989	.9982	1.0023	1.0053	1.0010	.9965	1.0007	.9993	.9990		.9975
2	.9999	.9987	.9967	1.0023	1.0043	1.0013	.9972	1.0007		1.0005		.9986
3	1.0004	.9992	.9966	1.0030	1.0041	1.0006	.9973	1.0006	.9999	.9996		.9986
4	1.0013	.9995	.9973	1.0016		1.0014	.9979	1.0020		1.0003		.9986
5	1.0003	.9998	.9975	1.0034		1.0011	.9977	1.0014		1.0004		.9983
6	1.0004	.9993	.9971	1.0017	1.0040	1.0010	.9974	1.0006	.9994	1.0005		.9987
7	.9995	.9991	.9975	1.0022	1.0045	1.0010	.9969	1.0014	.9995	1.0003		.9982
8	1.0006	.9999	.9977	1.0018		1.0014	.9979	1.0028	1.0000	.9992		.9987
9	1.0002	.9992	.9974	1.0004	1.0035	1.0012	.9972	1.0020	.9995	1.0008		.9985
10	1.0000	.9990	.9975	1.0037	1.0038	1.0009	.9977	.9999	.9999			.9976
11	.9987	1.0000	.9977	1.0011	1.0023	1.0011	.9981	1.0013	.9997	1.0014		.9985
12	.9995	.9993	.9975	1.0028	1.0013	1.0013	.9970	1.0031	1.0001	.9992	.9999	.9990
13	.9996	.9989	.9971	1.0037	1.0021	1.0012	.9969	1.0015	1.0001	1.0011	.9993	.9985
14	1.0005	.9999	.9976	1.0029	1.0001	1.0013	.9978	1.0016	.9997	.9990	1.0007	.9988
15	.9996	.9996	.9968	1.0024	1.0038	1.0012	.9967	1.0020	.9997	.9987	1.0005	.9990
16	1.0001	1.0002	.9963	1.0026	1.0037	1.0014	.9973	1.0018	.9993	.9990	.9998	.9985
17	1.0000	.9998	.9961	1.0023	1.0044	1.0018	.9971	1.0007	1.0002	.9998	.9995	.9983
18	1.0003	.9996	.9963	1.0039	1.0017	1.0020	.9975	1.0019	.9994	.9996	.9995	.9983
19	1.0000	.9999	.9973	1.0009	1.0052	1.0012	.9967	1.0018	.9990	.9992	.9999	.9988
20	.9994	.9996	.9962	1.0019	1.0055	1.0010	.9961	1.0023	.9998	1.0004	.9996	.9982
21	.9994	1.0001	.9970	1.0034	1.0026	1.0013	.9968	1.0021	.9993	1.0003	.9996	.9983
22	.9988	.9997	.9967	1.0026	1.0060	1.0010	.9976	1.0023	.9986	.9999	.9986	.9982
MEAN	1.0000	.9995	.9971	1.0024	1.0036	1.0012	.9972	1.0016	.9996	.9999	.9997	.9984
S.D.	.0007	.0004	.0006	.0009	.0015	.0003	.0005	.0008	.0004	.0008	.0006	.0004

A-56

Third Intercomparison - November 5 and 9, 1979

TABLE 3- 1

THIRD INTERCOMPARISON - NOVEMBER 5, 1979
 RUN 1: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	11:17:00	994.0			1002.7	1009.0	1005.1	1008.0	1010.0		1007.3	1006.2	1007.0	1005.0	1005.1
2	11:17:30	1003.9			1003.5	1009.8	1005.6	1008.0	1010.0		1007.6	1006.5	1008.0	1005.0	1005.2
3	11:18:00	1007.9			1003.5	1009.0	1006.3	1009.0	1011.0		1007.6	1007.4	1008.0	1006.0	1004.9
4	11:18:30	1008.9			1004.3	1009.0	1006.4	1010.0	1011.0		1007.7	1008.4	1008.0	1006.0	1004.5
5	11:19:00	1011.8			1004.3	1009.8	1006.9	1009.0	1011.0		1008.2	1008.5	1008.0	1007.0	1005.4
6	11:19:30	1011.8			1004.3	1010.5	1006.7	1010.0	1012.0		1008.5	1008.5	1008.0	1007.0	1005.9
7	11:20:00	1009.9	1007.0		1004.3	1009.8	1005.9	1010.0	1011.0		1008.5	1008.5	1007.0	1007.0	1005.4
8	11:20:30	1009.9	1007.0		1004.3	1008.3	1005.7	1009.0	1010.0		1007.9	1007.1	1007.0	1006.0	1004.9
9	11:21:00	1011.8	1004.0		1005.2	1010.5	1007.2	1010.0	1012.0		1008.6	1009.8	1009.0	1007.0	1005.3
10	11:21:30	1012.8	1009.0		1005.2	1010.5	1006.9	1010.0	1012.0		1009.5	1009.2	1009.0	1007.0	1005.8
11	11:22:00	1011.8	1009.0		1005.2	1011.3	1006.8	1010.0	1010.0		1008.9	1008.9	1009.0	1007.0	1006.0
12	11:22:30	1009.9	1008.0		1004.3	1009.8	1006.7	1010.0	1009.0		1007.9	1008.1	1008.0	1006.0	1004.3
13	11:23:00	1008.9	1008.0		1003.5	1008.3	1005.5	1009.0	1008.0		1007.7	1005.6	1007.5	1005.0	1003.9
14	11:23:30	1009.9	1009.0		1004.3	1008.3	1005.8	1009.0	1009.0		1007.7	1007.0	1007.0	1005.0	1004.2
15	11:24:00	1011.8	1008.0		1005.2	1009.8	1006.6	1010.0	1010.0		1007.8	1006.6	1007.5	1006.0	1004.1
16	11:24:30	1012.8	1008.0		1004.3	1009.8	1007.3	1010.0	1010.0		1007.7	1007.5	1007.5	1006.0	1004.3
17	11:25:00	1018.8	1006.0		1003.5	1007.5	1004.2	1008.0	1008.0		1006.8	1006.8	1007.0	1004.0	1003.7
18	11:25:30	1012.8	1007.0		1003.5	1007.5	1004.8	1008.0	1008.0		1007.3	1007.0	1007.5	1004.0	1005.7
19	11:26:00	1012.8	1008.0		1004.3	1007.5	1005.7	1009.0	1010.0		1007.1	1008.0	1008.0	1005.0	1006.1
20	11:26:30	1015.8	1008.0		1005.2	1008.3	1005.7	1010.0	1012.0		1007.8	1008.5	1007.5	1006.0	1007.1
21	11:27:00	1013.8	1009.0		1004.3	1008.3	1007.2	1009.0	1012.0		1008.3	1009.1	1008.0	1006.0	1007.5
1		.9887			.9974	1.0036	.9998	1.0026	1.0046		1.0020	1.0009	1.0017	.9997	.9998
2		.9974			.9970	1.0032	.9991	1.0014	1.0034		1.0010	1.0000	1.0014	.9985	.9987
3		1.0008			.9964	1.0019	.9992	1.0019	1.0038		1.0005	1.0003	1.0009	.9989	.9978
4		1.0015			.9969	1.0016	.9990	1.0026	1.0036		1.0003	1.0010	1.0006	.9986	.9971
5		1.0039			.9964	1.0019	.9990	1.0011	1.0031		1.0003	1.0006	1.0001	.9991	.9975
6		1.0036			.9962	1.0023	.9985	1.0018	1.0038		1.0003	1.0003	.9998	.9988	.9977
7		1.0022	.9993		.9967	1.0021	.9982	1.0023	1.0033		1.0008	1.0008	.9993	.9993	.9978
8		1.0028	.9999		.9972	1.0012	.9986	1.0019	1.0029		1.0008	1.0000	.9999	.9989	.9978
9		1.0036	.9959		.9971	1.0023	.9990	1.0018	1.0038		1.0004	1.0016	1.0008	.9988	.9972
10		1.0041	1.0003		.9965	1.0018	.9982	1.0013	1.0033		1.0008	1.0005	1.0003	.9983	.9971
11		1.0034	1.0006		.9969	1.0029	.9985	1.0016	1.0016		1.0005	1.0005	1.0006	.9987	.9977
12		1.0024	1.0005		.9968	1.0023	.9992	1.0025	1.0015		1.0004	1.0006	1.0005	.9985	.9968
13		1.0027	1.0018		.9973	1.0021	.9993	1.0028	1.0018		1.0015	.9994	1.0013	.9988	.9977
14		1.0032	1.0023		.9977	1.0017	.9992	1.0023	1.0023		1.0011	1.0004	1.0004	.9984	.9976
15		1.0046	1.0008		.9981	1.0026	.9995	1.0028	1.0028		1.0006	.9995	1.0003	.9989	.9970
16		1.0055	1.0007		.9970	1.0025	1.0000	1.0027	1.0027		1.0004	1.0002	1.0002	.9987	.9970
17		1.0124	.9997		.9972	1.0011	.9979	1.0016	1.0016		1.0004	1.0004	1.0006	.9977	.9974
18		1.0065	1.0007		.9972	1.0012	.9985	1.0017	1.0017		1.0010	1.0007	1.0012	.9977	.9994
19		1.0058	1.0011		.9974	1.0006	.9988	1.0021	1.0030		1.0002	1.0011	1.0011	.9981	.9992
20		1.0080	1.0002		.9975	1.0005	.9980	1.0022	1.0042		1.0000	1.0007	.9997	.9983	.9993
21		1.0060	1.0012		.9965	1.0005	.9994	1.0012	1.0042		1.0005	1.0013	1.0002	.9982	.9997
MEAN		1.0033	1.0003		.9970	1.0019	.9989	1.0020	1.0030		1.0007	1.0005	1.0005	.9986	.9980
S.D.		.0044	.0015		.0005	.0009	.0006	.0005	.0009		.0005	.0005	.0006	.0005	.0010

20	23	24	MEAN	S.D.
1006.0		1004.0	1005.34	3.953
1007.0		1005.0	1006.55	2.078
1007.0		1005.0	1007.12	2.006
1007.0		1005.0	1007.40	2.099
1007.0		1006.0	1007.92	2.151
1007.0		1006.0	1008.17	2.356
1007.0		1006.0	1007.66	1.993
1007.0		1005.0	1007.08	1.802
1008.0		1006.0	1008.17	2.506
1009.0		1006.0	1008.71	2.285
1007.0		1006.0	1008.35	2.048
1007.0		1006.0	1007.50	1.890
1000.7		1005.0	1006.19	2.426
1000.7		1006.0	1006.64	2.511
1000.7		1006.0	1007.15	2.830
1000.7		1006.0	1007.28	2.997
1000.6		1004.0	1006.35	4.175
1000.7		1004.0	1006.27	2.846
1000.6		1005.0	1006.94	2.890
1000.7		1006.0	1007.76	3.463
1000.7		1006.0	1007.80	3.142
1.0007		.9987		
1.0005		.9985		
.9999		.9979		
.9996		.9976		
.9991		.9981		
.9988		.9978		
.9993		.9983		
.9999		.9979		
.9998		.9978		
1.0003		.9973		
.9987		.9977		
.9995		.9985		
.9945		.9988		
.9941		.9994		
.9936		.9989		
.9935		.9987		
.9943		.9977		
.9945		.9977		
.9937		.9981		
.9930		.9983		
.9930		.9982		
.9972		.9982		
.0030		.0005		

TABLE 3- 2

THIRD INTERCOMPARISON - NOVEMBER 5, 1979
 RUN 2: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	11:36:00	1008.7	1001.0		1001.5	1006.0	1004.2	1008.0	1007.0		1008.1	1007.2	1008.0	1004.0	1005.3
2	11:36:30	1004.7	1001.0		1002.4	1007.5	1004.5	1008.0	1008.0		1008.6	1007.1	1009.0	1005.0	1005.9
3	11:37:00	1006.7	1001.0		1001.5	1006.8	1004.7	1009.0	1009.0	1012.0	1008.6	1006.8	1008.0	1005.0	1005.7
4	11:37:30	1006.7	1002.0		1002.4	1007.5	1005.4	1009.0	1010.0		1008.7	1007.3	1008.5	1006.0	1006.2
5	11:38:00	1004.7	1001.0		1001.5	1007.5	1004.1	1008.0	1008.0		1008.0	1006.2	1008.0	1006.0	1005.3
6	11:38:30	1002.7	1000.0		1001.5	1006.8	1004.4	1008.0	1009.0		1007.8	1006.4	1008.0	1005.5	1005.0
7	11:39:00	999.8	1000.0		1002.4	1006.8	1004.4	1008.0	1008.0	1012.0	1007.8	1005.7	1007.0	1005.0	1005.4
8	11:39:30	1003.7	1001.0		1002.4	1007.5	1005.9	1009.0	1007.0		1009.3	1007.4	1008.5	1007.0	1006.4
9	11:40:00	1004.7	1005.0		1002.4	1006.8	1006.1	1009.0	1008.0		1008.9	1007.0	1009.0	1007.0	1006.0
10	11:40:30	1005.7	1005.0		1002.4	1007.5	1005.9	1009.0	1011.0		1009.1	1008.0	1009.0	1007.0	1006.7
11	11:41:00	1005.7	1007.0		1003.2	1007.5	1005.8	1009.0	1012.0		1008.4	1007.6	1008.0	1007.5	1006.9
12	11:41:30	1005.7	1007.0		1003.2	1007.5	1006.1	1009.0	1011.0		1008.5	1008.6	1008.0	1007.0	1006.7
13	11:42:00	998.8	1006.0		1002.4	1006.8	1004.6	1009.0	1001.2	1012.0	1007.8	1007.6	1006.5	1006.5	1005.9
14	11:42:30	1005.7	1007.0		1003.2	1006.0	1005.6	1009.0	1001.2		1007.8	1008.0	1006.0	1006.5	1006.3
15	11:43:00	1008.7	1006.0		1004.1	1007.5	1005.7	1010.0	1001.1		1008.8	1008.8	1008.0	1007.0	1006.7
16	11:43:30	1002.7	1008.0		1003.2	1008.3	1006.1	1010.0	1000.9		1008.9	1008.2	1007.0	1006.0	1006.7
17	11:44:00	998.8	1006.0		1002.4	1007.5	1005.4	1010.0	1000.9		1008.6	1008.0	1006.0	1006.0	1006.1
18	11:44:30	1008.7	1004.0		1002.4	1007.5	1004.9	1009.0	1000.6		1007.8	1006.5	1006.0	1004.5	1005.3
19	11:45:00	1007.7	1006.0		1002.4	1006.8	1004.9	1009.0	1000.7	1012.0	1008.3	1007.8	1007.0	1005.0	1005.6
20	11:45:30	1006.7	1007.0		1003.2	1006.0	1006.1	1009.0	1000.8		1008.6	1006.2	1007.0	1006.0	1006.2
21	11:46:00	1005.7	1003.0		1003.2	1005.3	1005.8	1009.0	1000.9		1008.4	1007.5		1005.0	1006.4
1		1.0030	.9954		.9959	1.0004	.9986	1.0023	1.0013		1.0024	1.0015	1.0023	.9984	.9997
2		.9988	.9951		.9965	1.0016	.9986	1.0021	1.0021		1.0027	1.0012	1.0031	.9991	1.0000
3		1.0004	.9947		.9952	1.0005	.9984	1.0027	1.0027	1.0056	1.0023	1.0005	1.0017	.9987	.9994
4		1.0001	.9955		.9959	1.0009	.9989	1.0024	1.0034		1.0021	1.0007	1.0019	.9995	.9997
5		.9990	.9954		.9959	1.0018	.9984	1.0023	1.0023		1.0023	1.0005	1.0023	1.0003	.9996
6		.9973	.9947		.9962	1.0014	.9990	1.0026	1.0036		1.0024	1.0010	1.0026	1.0001	.9996
7		.9943	.9945		.9969	1.0013	.9989	1.0025	1.0025	1.0065	1.0023	1.0002	1.0015	.9995	.9999
8		.9974	.9947		.9961	1.0011	.9995	1.0026	1.0006		1.0029	1.0010	1.0021	1.0006	1.0000
9		.9982	.9985		.9959	1.0003	.9996	1.0025	1.0015		1.0024	1.0005	1.0025	1.0005	.9995
10		.9987	.9980		.9954	1.0005	.9989	1.0020	1.0039		1.0021	1.0010	1.0020	1.0000	.9997
11		.9985	.9998		.9960	1.0003	.9986	1.0018	1.0048		1.0012	1.0004	1.0008	1.0003	.9997
12		.9985	.9998		.9961	1.0003	.9989	1.0018	1.0038		1.0013	1.0014	1.0008	.9998	.9995
13		.9931	1.0003		.9967	1.0011	.9989	1.0032	.9955	1.0062	1.0020	1.0018	1.0008	1.0008	1.0002
14		.9999	1.0012		.9974	1.0002	.9998	1.0032	.9954		1.0020	1.0022	1.0002	1.0007	1.0005
15		1.0019	.9993		.9974	1.0008	.9990	1.0032	.9944		1.0020	1.0020	1.0012	1.0003	1.0000
16		.9964	1.0017		.9969	1.0020	.9998	1.0037	.9946		1.0026	1.0019	1.0007	.9997	1.0004
17		.9934	1.0005		.9969	1.0020	.9999	1.0045	.9954		1.0031	1.0025	1.0005	1.0005	1.0006
18		1.0031	.9984		.9968	1.0019	.9993	1.0034	.9950		1.0022	1.0009	1.0004	.9989	.9997
19		1.0013	.9997		.9961	1.0005	.9986	1.0026	.9944	1.0056	1.0019	1.0014	1.0006	.9987	.9993
20		1.0006	1.0009		.9971	.9999	1.0000	1.0029	.9947		1.0025	1.0001	1.0009	.9999	1.0001
21		1.0001	.9974		.9976	.9997	1.0002	1.0034	.9953		1.0028	1.0019		.9994	1.0008
MEAN		.9988	.9979		.9964	1.0009	.9991	1.0027	.9994	1.0060	1.0023	1.0012	1.0015	.9998	.9999
S.D.		.0028	.0025		.0007	.0007	.0006	.0007	.0040	.0004	.0005	.0007	.0009	.0007	.0004

20	23	24	MEAN	S.D.
1007.0		1003.0	1005.64	2.532
1007.0		1004.0	1005.91	2.402
1006.0		1004.0	1006.32	2.891
1007.0		1005.0	1006.55	2.322
1007.0		1004.0	1005.66	2.366
1007.0		1003.0	1005.36	2.722
1007.0		1003.0	1005.49	3.233
1009.0		1005.0	1006.36	2.541
		1005.0	1006.53	1.959
		1005.0	1007.02	2.269
1007.0		1005.0	1007.19	2.037
1006.0		1006.0	1007.16	1.855
1006.0		1005.0	1005.74	3.182
1005.0		1004.0	1005.81	2.023
1007.0		1005.0	1006.74	2.299
1007.0		1005.0	1006.29	2.567
1006.0		1005.0	1005.48	3.005
1007.0		1004.0	1005.59	2.397
1007.0		1005.0	1006.35	2.695
1008.0		1005.0	1006.13	2.112
1008.0		1005.0	1005.63	2.325

1.0013	.9974
1.0011	.9981
.9997	.9977
1.0004	.9985
1.0013	.9983
1.0016	.9976
1.0015	.9975
1.0026	.9986
	.9985
	.9980
.9998	.9978
.9988	.9988
1.0003	.9993
.9992	.9982
1.0003	.9983
1.0007	.9987
1.0005	.9995
1.0014	.9984
1.0006	.9987
1.0019	.9989
1.0024	.9994
1.0008	.9984
.0010	.0006

TABLE 3-3

THIRD INTERCOMPARISON - NOVEMBER 5, 1979
 RUN 3: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	12:00:00	1009.8	1007.0		1004.0	1000.6	1006.1	1011.0	1011.0		1009.5	1006.6	1008.0	1005.0	1007.2
2	12:00:30	1006.9	1007.0		1004.0	1008.1	1005.6	1011.0	1009.0		1009.7	1007.7	1009.0	1005.0	1007.2
3	12:01:00	1003.9	1007.0		1003.2	1006.6	1006.7	1011.0	1009.0	1012.0	1009.0	1006.6	1009.0	1004.0	1006.1
4	12:01:30	1004.9	1008.0		1004.0	1007.4	1006.2	1010.0	1009.0		1009.8	1007.0	1010.0	1005.0	1006.6
5	12:02:00	998.0	1008.0		1003.2	1005.9	1005.5	1010.0	1009.0		1008.7	1005.7	1009.0	1004.0	1005.7
6	12:02:30	1001.0	1006.0		1002.3	1006.6	1003.7	1009.0	1007.0		1007.4	1005.5	1008.0	1003.0	1005.1
7	12:03:00	994.1	1009.0		1004.9	1007.4	1006.2	1012.0	1010.0		1009.7	1007.9	1010.0	1005.0	1007.1
8	12:03:30	1006.9	1008.0		1004.9	1007.4	1006.5	1013.0	1009.0		1009.8	1008.5	1010.0	1005.0	1007.2
9	12:04:00	1001.9	1009.0		1004.9	1008.1	1007.2	1013.0	1010.0	1004.0	1010.5	1008.6	1011.0	1006.0	1007.3
10	12:04:30	1002.9	1010.0		1004.9	1008.9	1006.8	1013.0	1012.0		1010.0	1008.4	1010.5	1006.0	1007.7
11	12:05:00	1004.9	1008.0		1003.2	1005.9	1004.8	1011.0	1010.0		1008.5	1006.9	1009.0	1005.0	1006.1
12	12:05:30	1010.8	1006.0		1002.3	1005.9	1005.4	1010.0	1008.0		1007.0	1005.8	1007.0	1003.0	1004.8
13	12:06:00	1007.8	1004.0		1001.5	1004.4	1003.2	1009.0	1006.0	1012.0	1006.4	1005.3	1006.5	1002.0	1004.0
14	12:06:30	1008.8	1008.0		1003.2	1005.9	1004.5	1010.0	1008.0		1007.9	1007.2	1006.5	1003.0	1005.2
15	12:07:00	1007.8	1005.0		1001.5	1004.4	1004.2	1010.0	1007.0		1007.3	1005.5	1008.0	1003.0	1004.4
16	12:07:30	1006.9	1005.0		1001.5	1003.6	1003.0	1010.0	1007.0		1006.6	1005.6	1007.0	1002.0	1004.3
17	12:08:00	1003.9	1006.0		1001.5	1003.6	1003.6	1009.0	1007.0	1004.0	1007.2	1005.8	1008.0	1001.0	1004.3
18	12:08:30	1004.9	1005.0		1002.3	1005.1	1003.9	1010.0	1007.0		1007.2	1006.5	1009.0	1002.0	1004.6
19	12:09:00	1003.9	1003.0		1001.5	1004.4	1003.9	1010.0	1007.0		1007.6	1004.7	1008.0	1003.0	1004.9
20	12:09:30	1003.9	1004.0		1002.3	1004.4	1003.9	1010.0	1008.0		1007.9	1006.1	1009.0	1003.0	1004.9
21	12:10:00	1003.9	1004.0		1002.3	1003.6	1004.1	1010.0	1007.0	1004.0	1008.2	1005.6	1009.0	1003.0	1005.1
1		1.0027	.9999		.9969	.9935	.9990	1.0038	1.0038		1.0024	.9995	1.0009	.9979	1.0001
2		.9994	.9995		.9965	1.0006	.9981	1.0035	1.0015		1.0022	1.0002	1.0015	.9975	.9997
3		.9968	.9999		.9961	.9995	.9996	1.0038	1.0018	1.0048	1.0018	.9995	1.0018	.9969	.9990
4		.9976	1.0006		.9967	1.0000	.9989	1.0026	1.0016		1.0024	.9997	1.0026	.9977	.9993
5		.9920	1.0019		.9972	.9999	.9995	1.0039	1.0029		1.0026	.9997	1.0029	.9980	.9997
6		.9957	1.0007		.9970	1.0013	.9984	1.0037	1.0017		1.0021	1.0002	1.0027	.9977	.9998
7		.9872	1.0020		.9980	1.0004	.9993	1.0050	1.0030		1.0027	1.0009	1.0030	.9981	1.0001
8		.9990	1.0001		.9970	.9995	.9986	1.0050	1.0010		1.0018	1.0006	1.0020	.9971	.9993
9		.9942	1.0012		.9972	1.0003	.9994	1.0052	1.0022	.9965	1.0027	1.0008	1.0032	.9982	.9995
10		.9946	1.0016		.9966	1.0005	.9984	1.0046	1.0036		1.0016	1.0000	1.0021	.9977	.9993
11		.9982	1.0013		.9965	.9992	.9981	1.0042	1.0032		1.0018	1.0002	1.0022	.9983	.9994
12		1.0047	.9999		.9963	.9998	.9993	1.0039	1.0019		1.0009	.9997	1.0009	.9969	.9987
13		1.0024	.9986		.9961	.9990	.9978	1.0036	1.0006	1.0066	1.0010	.9999	1.0011	.9966	.9986
14		1.0024	1.0016		.9968	.9995	.9981	1.0036	1.0016		1.0015	1.0008	1.0001	.9966	.9988
15		1.0022	.9994		.9959	.9988	.9986	1.0044	1.0014		1.0017	.9999	1.0024	.9974	.9988
16		1.0018	.9999		.9964	.9985	.9979	1.0049	1.0019		1.0015	1.0005	1.0019	.9969	.9992
17		.9989	1.0010		.9965	.9986	.9986	1.0040	1.0020	.9990	1.0022	1.0008	1.0030	.9960	.9993
18		.9993	.9994		.9967	.9995	.9983	1.0044	1.0014		1.0016	1.0009	1.0034	.9964	.9990
19		.9987	.9978		.9963	.9992	.9987	1.0048	1.0018		1.0024	.9995	1.0028	.9978	.9997
20		.9983	.9984		.9967	.9988	.9983	1.0044	1.0024		1.0023	1.0005	1.0034	.9974	.9993
21		.9985	.9986		.9969	.9982	.9987	1.0045	1.0015	.9986	1.0027	1.0001	1.0035	.9976	.9996
MEAN		.9983	1.0002		.9967	.9993	.9986	1.0042	1.0021	1.0010	1.0020	1.0002	1.0023	.9974	.9993
S.D.		.0040	.0012		.0005	.0015	.0005	.0006	.0008	.0044	.0015	.0005	.0009	.0006	.0004

20	23	24	MEAN	S.D.
1008.0		1006.0	1007.13	2.526
1009.0		1006.0	1007.51	1.947
1008.0		1005.0	1007.14	2.563
1009.0		1006.0	1007.35	2.009
1007.0		1005.0	1006.05	3.083
1006.0		1004.0	1005.33	2.288
1008.0		1006.0	1006.95	4.231
1009.0		1006.0	1007.94	2.175
1009.0		1006.0	1007.77	2.900
1009.0		1007.0	1008.36	2.739
1006.0		1005.0	1006.74	2.253
1005.0		1004.0	1006.07	2.394
1005.0		1004.0	1005.41	2.719
1006.0		1005.0	1006.37	2.075
1006.0		1004.0	1005.58	2.258
1005.0		1004.0	1005.11	2.288
1006.0		1004.0	1004.99	2.273
1007.0		1004.0	1005.61	2.314
1007.0		1004.0	1005.21	2.358
1007.0		1004.0	1005.60	2.396
1007.0		1005.0	1005.45	2.296
1.0009		.9989		
1.0015		.9985		
1.0009		.9979		
1.0016		.9987		
1.0009		.9990		
1.0007		.9987		
1.0010		.9991		
1.0010		.9981		
1.0012		.9982		
1.0006		.9986		
.9993		.9983		
.9989		.9979		
.9996		.9986		
.9996		.9986		
1.0004		.9984		
.9999		.9989		
1.0010		.9990		
1.0014		.9984		
1.0018		.9988		
1.0014		.9984		
1.0015		.9995		
1.0007		.9986		
.0008		.0004		

TABLE 3- 4

THIRD INTERCOMPARISON - NOVEMBER 5, 1979
 RUN 4: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----														
		1	3	5	7	8	9	10	11	12	13	14	17	18	19	
1	12:30:00	1000.8				996.5	1000.7	1000.2	1004.0	1004.0		1002.2	1001.3	1001.0	1003.5	1000.9
2	12:30:30	1001.7				997.4	1000.0	999.4	1003.0	1004.0		1001.9	1001.3	1000.0	1003.0	1001.2
3	12:31:00	1002.7				996.5	1000.7	999.1	1003.0	1001.0	1017.0	1002.6	1001.8	1001.5	1002.0	1000.5
4	12:31:30	1001.7				997.4	1000.0	999.9	1003.0	1001.0		1002.7	999.6	1001.0	1001.0	1000.5
5	12:32:00	1001.7				997.4	1000.7	1000.3	1003.0	1001.0		1003.0	1001.2	1001.5	1002.0	1000.8
6	12:32:30	1002.7	991.0			997.2	1001.5	1000.5	1003.0	1002.0		1003.8	1000.0	1003.0	1004.0	1000.7
7	12:33:00	999.8	988.0			996.5	999.2	999.1	1003.0	1001.0	1008.0	1001.5	1000.1	1000.0	1002.0	1000.1
8	12:33:30	994.9	987.0			996.5	999.2	998.9	1003.0	1001.0		1002.2	998.7	1001.0	1003.0	1000.2
9	12:34:00	996.8	990.0			997.4	1000.8	999.7	1003.0	1002.0		1002.3	999.8	1001.0	1003.0	1000.4
10	12:34:30	998.8	989.0			997.4	1000.8	999.7	1002.0	1001.0		1002.0	1000.1	1000.0	1002.0	1000.3
11	12:35:00	997.8	990.0			996.5	1000.0	998.9	1002.0	1001.0	1008.0	1001.8	999.8	1000.0	1002.0	1000.2
12	12:35:30	996.8	987.0			996.5	999.2	997.7	1002.0	999.0		1001.2	999.4	999.0	1002.0	999.6
13	12:36:00	997.8	987.0			995.7	1000.7	998.1	1002.0	999.0		1000.8	999.2	999.0	1001.0	998.9
14	12:36:30	995.9	989.0			997.4	1000.0	998.6	1002.0	1000.0		1001.0	1000.7	999.0	1001.5	999.5
15	12:37:00	993.9	990.0			997.4	1000.7	998.9	1002.0	999.0	1008.0	1002.3	1000.1	1000.0	1001.5	999.9
16	12:37:30	993.9	990.0			997.4	1000.7	1000.1	1003.0	999.0		1002.3	1000.1	1000.0	1002.0	1000.0
17	12:38:00	998.8	989.0			998.2	1000.7	999.7	1003.0	1000.0		1002.8	1001.5	1001.0	1001.5	1000.4
18	12:38:30	994.9	988.0			996.5	1000.0	998.1	1002.0	999.0		1001.8	1000.0	999.0	1001.0	999.1
19	12:39:00	997.8	989.0			996.5	1000.0	998.6	1002.0	1000.0	1010.0	1001.9	999.7	1000.0	1001.0	999.3
20	12:39:30	998.8	987.0			995.7	997.7	998.7	1002.0	998.0		1001.8	1000.0	1000.0	1001.0	998.5
21	12:40:00	998.8	990.0			997.4	1001.5	999.5	1003.0	1000.0		1001.9	1001.4	999.0	1001.0	999.6
1		.9997				.9954	.9996	.9991	1.0029	1.0029		1.0011	1.0002	.9999	1.0024	.9998
2		1.0009				.9966	.9992	.9986	1.0022	1.0032		1.0011	1.0005	.9992	1.0022	1.0004
3		1.0007				.9945	.9987	.9971	1.0010	.9990	1.0149	1.0006	.9998	.9995	1.0000	.9985
4		1.0011				.9968	.9994	.9993	1.0024	1.0004		1.0021	.9990	1.0004	1.0004	.9999
5		1.0007				.9964	.9997	.9993	1.0020	1.0000		1.0020	1.0002	1.0005	1.0010	.9998
6		1.0020	.9933			.9965	1.0008	.9998	1.0023	1.0013		1.0031	.9993	1.0023	1.0033	1.0000
7		1.0000	.9832			.9967	.9994	.9993	1.0032	1.0012	1.0082	1.0017	1.0003	1.0002	1.0022	1.0003
8		.9960	.9831			.9976	1.0003	1.0000	1.0041	1.0021		1.0033	.9998	1.0021	1.0041	1.0013
9		.9971	.9903			.9977	1.0011	1.0000	1.0033	1.0023		1.0026	1.0001	1.0013	1.0033	1.0007
10		.9994	.9896			.9980	1.0014	1.0003	1.0026	1.0016		1.0026	1.0007	1.0006	1.0026	1.0009
11		.9981	.9903			.9968	1.0003	.9992	1.0023	1.0013	1.0083	1.0021	1.0001	1.0003	1.0023	1.0005
12		.9986	.9887			.9983	1.0010	.9995	1.0038	1.0008		1.0030	1.0012	1.0008	1.0038	1.0014
13		.9995	.9887			.9974	1.0024	.9998	1.0037	1.0007		1.0025	1.0009	1.0007	1.0027	1.0006
14		.9973	.9904			.9988	1.0014	1.0000	1.0034	1.0014		1.0024	1.0021	1.0004	1.0029	1.0009
15		.9944	.9905			.9979	1.0012	.9994	1.0025	.9995	1.0085	1.0028	1.0006	1.0005	1.0020	1.0004
16		.9948	.9909			.9983	1.0016	1.0010	1.0039	.9999		1.0032	1.0010	1.0009	1.0029	1.0009
17		.9990	.9892			.9984	1.0009	.9999	1.0032	1.0002		1.0030	1.0017	1.0012	1.0017	1.0006
18		.9964	.9895			.9980	1.0015	.9996	1.0035	1.0005		1.0033	1.0015	1.0005	1.0025	1.0006
19		.9982	.9894			.9969	1.0004	.9990	1.0024	1.0004	1.0104	1.0023	1.0001	1.0004	1.0014	.9997
20		1.0004	.9886			.9973	.9993	1.0003	1.0036	.9996		1.0034	1.0016	1.0016	1.0026	1.0001
21		.9994	.9906			.9980	1.0021	1.0001	1.0036	1.0006		1.0025	1.0020	.9996	1.0016	1.0002
	MEAN	.9987	.9896			.9973	1.0006	.9996	1.0030	1.0009	1.0101	1.0024	1.0006	1.0006	1.0023	1.0004
	S.D.	.0021	.0009			.0010	.0010	.0008	.0008	.0011	.0029	.0008	.0009	.0008	.0010	.0006

20	23	24	MEAN	S.D.
999.0		1000.0	1001.08	2.676
999.0		999.0	1000.84	1.906
1001.0		999.0	1002.03	4.647
1001.0		999.0	1000.60	1.491
1001.0		999.0	1000.97	1.510
1001.0		1000.0	1000.74	3.338
999.0		999.0	999.75	4.133
1000.0		999.0	998.90	4.111
1000.0		999.0	999.66	3.346
999.0		999.0	999.36	3.274
998.0		999.0	999.67	3.760
998.0		998.0	998.24	3.660
999.0		998.0	998.30	3.621
998.0		998.0	998.61	3.242
1000.0		999.0	999.51	3.961
1000.0		999.0	999.11	3.437
1001.0		1000.0	999.83	3.389
1000.0		999.0	998.46	3.558
1000.0		998.0	999.59	4.231
1000.0		998.0	998.37	3.653
1000.0		999.0	999.44	3.088
.9979		.9989		
.9982		.9982		
.9990		.9970		
1.0004		.9984		
1.0000		.9980		
1.0003		.9993		
.9992		.9992		
1.0011		1.0001		
1.0003		.9993		
.9996		.9996		
.9983		.9993		
.9998		.9998		
1.0007		.9997		
.9994		.9994		
1.0005		.9995		
1.0009		.9999		
1.0012		1.0002		
1.0015		1.0005		
1.0004		.9984		
1.0016		.9996		
1.0006		.9996		
1.0000		.9992		
.0011		.0008		

TABLE : 3- 5

THIRD INTERCOMPARISON - NOVEMBER 5, 1979
 RUN 5: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	13:20:00	983.6			986.9	991.7	989.7	994.0	994.0	989.0	993.8	992.8	994.0	990.0	991.5
2	13:20:30	977.7	989.0		987.8	991.7	989.9	993.0	995.0		993.7	992.5	994.0	991.0	991.3
3	13:21:00	977.7	991.0		986.9	992.4	988.5	994.0	996.0		992.8	993.1	993.0	991.0	990.7
4	13:21:30	987.5	989.0		986.1	990.9	987.1	993.0	995.0		991.7	990.5	991.0	990.5	989.6
5	13:22:00	969.9	991.0		985.2	990.1	987.1	993.0	993.0		991.1	991.0	991.0	989.5	989.4
6	13:22:30	976.8	991.0		985.2	990.1	987.2	993.0	994.0		991.1	990.2	990.0	990.0	988.8
7	13:23:00	990.5	988.0		984.4	988.6	985.8	991.0	994.0	985.0	990.7	989.9	989.0	989.0	988.3
8	13:23:30	989.5	989.0		984.4	988.6	986.1	992.0	994.0	1002.0	990.0	990.2	989.0	989.0	988.3
9	13:24:00	985.6	989.0		984.4	989.4	986.1	991.0	994.0	1002.0	989.4	989.3	988.0	988.0	987.8
10	13:24:30	974.8	990.0		984.4	989.4	986.4	992.0	993.0	994.0	989.8	989.8	989.0	988.0	987.7
11	13:25:00	973.8	986.0		985.2	990.1	986.6	991.0	992.0	1002.0	989.5	991.1	988.0	988.0	987.9
12	13:25:30	985.6	988.0		984.4	989.4	986.2	992.0	991.0	998.0	989.6	989.5	988.0	987.0	987.8
13	13:26:00	994.4	987.0		985.2	990.1	986.0	992.0	993.0	989.0	989.4	990.5	988.0	988.5	988.2
14	13:26:30	991.1	987.0		984.4	990.1	985.4	992.0	992.0	1002.0	990.0	989.3	988.0	988.0	988.0
15	13:27:00	980.7	989.0		985.2	989.4	986.6	992.0	993.0	1002.0	990.1	991.0	988.0	989.0	988.3
16	13:27:30	989.5	990.0		985.2	990.1	986.2	992.0	993.0	994.0	989.7	989.9	987.0	990.0	988.4
17	13:28:00	976.8	990.0		985.2	990.9	986.1	991.0	994.0	1002.0	989.1	990.1	986.0	990.0	988.2
18	13:28:30	978.7	989.0		985.2	990.1	986.2	991.0	994.0	998.0	989.0	989.8	986.0	990.0	987.8
19	13:29:00	982.6	990.0		985.2	990.1	986.2	992.0	994.0	1002.0	989.1	990.1	986.0	990.0	987.9
20	13:29:30	987.5	989.0		985.2	989.4	985.9	991.0	994.0	1002.0	989.5	990.9	986.0	989.0	987.5
21	13:30:00	994.4	990.0		985.2	990.1	986.0	991.0	994.0	1002.0	989.1	988.8	985.0	989.0	987.7
1		.9928			.9961	1.0010	.9990	1.0033	1.0033	.9983	1.0031	1.0021	1.0033	.9993	1.0008
2		.9871	.9985		.9973	1.0013	.9995	1.0026	1.0046		1.0033	1.0021	1.0036	1.0006	1.0009
3		.9873	1.0008		.9966	1.0022	.9982	1.0038	1.0058		1.0026	1.0029	1.0028	1.0008	1.0005
4		.9977	.9992		.9963	1.0012	.9973	1.0033	1.0053		1.0020	1.0007	1.0013	1.0007	.9998
5		.9815	1.0028		.9970	1.0019	.9989	1.0049	1.0049		1.0029	1.0028	1.0028	1.0013	1.0012
6		.9881	1.0025		.9966	1.0016	.9986	1.0045	1.0055		1.0026	1.0017	1.0015	1.0015	1.0003
7		1.0023	.9998		.9961	1.0004	.9976	1.0028	1.0059	.9967	1.0025	1.0017	1.0008	1.0008	1.0001
8		1.0003	.9997		.9951	.9953	.9968	1.0028	1.0048	1.0129	1.0008	1.0010	.9997	.9997	.9990
9		.9968	1.0003		.9956	1.0007	.9974	1.0023	1.0053	1.0134	1.0007	1.0006	.9993	.9993	.9991
10		.9869	1.0023		.9966	1.0017	.9986	1.0043	1.0053	1.0063	1.0021	1.0021	1.0013	1.0003	1.0000
11		.9857	.9981		.9972	1.0022	.9987	1.0031	1.0041	1.0142	1.0016	1.0032	1.0001	1.0001	1.0000
12		.9973	.9998		.9961	1.0012	.9979	1.0038	1.0028	1.0099	1.0014	1.0013	.9998	.9987	.9996
13		1.0058	.9984		.9965	1.0015	.9974	1.0034	1.0044	1.0004	1.0008	1.0019	.9994	.9999	.9996
14		1.0021	.9980		.9954	1.0011	.9964	1.0031	1.0031	1.0132	1.0010	1.0003	.9990	.9990	.9990
15		.9918	1.0002		.9964	1.0006	.9978	1.0032	1.0042	1.0133	1.0013	1.0022	.9992	1.0002	.9995
16		1.0007	1.0012		.9964	1.0013	.9974	1.0032	1.0042	1.0053	1.0009	1.0011	.9982	1.0012	.9996
17		.9883	1.0016		.9968	1.0025	.9977	1.0026	1.0057	1.0138	1.0007	1.0017	.9976	1.0016	.9998
18		.9906	1.0010		.9971	1.0021	.9981	1.0030	1.0060	1.0101	1.0010	1.0018	.9979	1.0020	.9998
19		.9938	1.0012		.9964	1.0013	.9974	1.0033	1.0053	1.0134	1.0003	1.0013	.9972	1.0012	.9991
20		.9986	1.0001		.9962	1.0005	.9969	1.0021	1.0051	1.0132	1.0006	1.0020	.9970	1.0001	.9986
21		1.0053	1.0009		.9960	1.0010	.9968	1.0019	1.0049	1.0130	1.0000	.9997	.9958	.9999	.9986
MEAN		.9943	1.0003		.9964	1.0013	.9978	1.0032	1.0048	1.0092	1.0015	1.0016	.9999	1.0004	.9997
S.D.		.0070	.0014		.0006	.0007	.0008	.0008	.0009	.0060	.0010	.0009	.0022	.0009	.0007

20	23	24	MEAN	S.D.
991.0	988.9	990.0	990.73	2.944
991.0	989.0	990.0	990.44	4.069
989.0	988.5	989.0	990.24	4.253
988.0	987.5	989.0	989.76	2.400
987.0	986.5	988.0	988.19	5.569
986.0	986.7	988.0	988.54	4.077
985.0	986.2	986.0	988.21	2.670
984.0	985.9	986.0	989.25	4.309
984.0	985.5	986.0	988.72	4.382
984.0	985.6	986.0	987.74	4.509
984.0	985.6	986.0	987.92	5.647
984.0	985.3	986.0	988.24	3.475
984.0	985.6	987.0	988.62	2.891
983.0	985.3	988.0	988.97	4.363
984.0	985.6	987.0	988.81	4.690
983.0	985.8	987.0	988.80	2.955
982.0	985.9	987.0	988.39	5.434
982.0	985.7	986.0	988.03	4.513
982.0	986.2	987.0	988.77	4.767
983.0	985.8	987.0	988.92	4.395
982.0	985.7	986.0	989.12	4.755
1.0003	.9982	.9993		
1.0006	.9985	.9996		
.9987	.9982	.9987		
.9982	.9977	.9992		
.9988	.9983	.9998		
.9974	.9981	.9995		
.9967	.9980	.9978		
.9947	.9966	.9967		
.9952	.9967	.9973		
.9962	.9978	.9982		
.9960	.9976	.9981		
.9957	.9970	.9977		
.9953	.9969	.9984		
.9940	.9963	.9990		
.9951	.9968	.9982		
.9941	.9970	.9982		
.9935	.9975	.9986		
.9939	.9976	.9979		
.9931	.9974	.9982		
.9940	.9968	.9981		
.9928	.9965	.9968		
.9959	.9974	.9983		
.0023	.0007	.0008		

TABLE 3- 6

THIRD INTERCOMPARISON - NOVEMBER 5, 1979
 RUN 6: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER-----													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	13:41:00	981.1	972.0		979.1	983.4	981.5	985.4	984.0	994.0		982.5	986.0	982.0	982.1
2	13:41:30	979.2	973.0		979.1	983.4	980.4	985.4	985.0	988.0	984.6	982.4	986.0	982.0	982.2
3	13:42:00	980.2	976.0		979.1	984.2	981.5	985.4	986.0		985.5	983.9	986.0	983.0	982.8
4	13:42:30	982.1	976.0		980.0	984.9	982.9	986.4	987.0		985.4	984.9	986.5	983.0	983.2
5	13:43:00	982.1	976.0		980.8	984.9	982.8	987.4	988.0	1001.0	985.8	985.7	987.0	984.0	984.4
6	13:43:30	979.2	979.0		981.7	986.4	982.8	987.4	988.0	984.0	986.3	985.8	988.0	983.0	983.9
7	13:44:00	965.4	979.0		980.8	983.4	983.1	987.4	987.0		986.5	984.0	988.0	984.0	984.8
8	13:44:30	982.1	976.0		981.7	987.2	983.8	988.4	988.0	992.0	987.1	984.3	989.0	985.0	985.3
9	13:45:00	985.1	973.0		981.7	987.2	984.3	988.4	986.0	984.0	987.7	985.3	990.0	983.0	984.9
10	13:45:30	987.0	970.0		981.7	986.4	983.9	988.4	985.0	984.0	988.1	984.9	991.0	982.0	985.1
11	13:46:00	954.6	976.0		982.5	986.4	983.8	988.4	984.0		988.7	986.2	992.0	982.0	984.7
12	13:46:30	963.5	976.0		981.7	985.7	983.7	988.4	983.0		988.7	985.8	992.0	983.5	984.6
13	13:47:00	990.0	978.0		981.7	983.4	984.1	987.4	986.0	992.0	988.6	985.1	992.0	985.0	984.8
14	13:47:30	986.0	976.0		980.8	984.2	983.1	988.4	986.0	992.0	988.4	985.1	991.0	985.0	984.6
15	13:48:00	987.0	973.0		980.8	984.2	983.6	988.4	986.0	992.0	987.9	984.9	990.0	986.0	984.6
16	13:48:30	986.0	973.0		980.8	983.4	983.0	987.4	986.0	984.0	987.7	984.2	990.0	985.0	983.9
17	13:49:00	985.1	973.0		980.8	984.2	982.7	987.4	986.0		987.5	985.7	989.0	985.0	983.9
18	13:49:30	984.1	976.0		980.0	982.7	982.2	986.4	987.0	996.0	986.1	984.4	988.0	985.0	983.6
19	13:50:00	976.2	977.0		979.1	982.7	981.4	985.4	986.0	984.0	985.6	983.5	988.0	983.0	982.8
20	13:50:30	982.1	975.0		978.3	981.1	981.3	985.4	985.0	984.0	985.4	983.5	988.0	983.0	982.5
21	13:51:00	982.1	971.0		979.1	981.1	981.1	986.4	983.0	984.0	985.6	983.9	988.0	981.5	982.7
1		.9986	.9893		.9965	1.0009	.9990	1.0029	1.0015	1.0117		1.0000	1.0035	.9995	.9996
2		.9969	.9906		.9968	1.0012	.9982	1.0033	1.0028	1.0059	1.0024	1.0002	1.0039	.9998	1.0000
3		.9976	.9933		.9965	1.0017	.9989	1.0029	1.0035		1.0030	1.0014	1.0035	1.0004	1.0002
4		.9980	.9918		.9959	1.0008	.9988	1.0024	1.0030	1.0121	1.0014	1.0008	1.0025	.9989	.9991
5		.9972	.9910		.9959	1.0000	.9979	1.0026	1.0032	1.0164	1.0009	1.0008	1.0022	.9991	.9995
6		.9952	.9950		.9977	1.0025	.9988	1.0035	1.0041	1.0000	1.0024	1.0019	1.0041	.9990	.9999
7		.9823	.9962		.9980	1.0006	1.0003	1.0047	1.0043		1.0038	1.0013	1.0053	1.0013	1.0021
8		.9970	.9908		.9966	1.0022	.9987	1.0034	1.0030	1.0070	1.0021	.9992	1.0040	.9999	1.0002
9		1.0006	.9883		.9971	1.0027	.9998	1.0040	1.0015	.9995	1.0032	1.0008	1.0056	.9985	1.0004
10		1.0026	.9854		.9973	1.0020	.9995	1.0041	1.0006	.9996	1.0038	1.0005	1.0067	.9976	1.0007
11		.9712	.9930		.9996	1.0036	1.0009	1.0056	1.0011		1.0059	1.0034	1.0093	.9991	1.0018
12		.9798	.9925		.9983	1.0024	1.0004	1.0051	.9997		1.0055	1.0025	1.0088	1.0002	1.0013
13		1.0043	.9921		.9959	.9976	.9983	1.0017	1.0002	1.0063	1.0029	.9993	1.0063	.9992	.9990
14		1.0007	.9905		.9954	.9989	.9978	1.0031	1.0007	1.0068	1.0031	.9998	1.0058	.9997	.9993
15		1.0020	.9878		.9957	.9991	.9985	1.0034	1.0010	1.0071	1.0029	.9999	1.0050	1.0010	.9995
16		1.0020	.9888		.9967	.9993	.9989	1.0034	1.0020	1.0000	1.0037	1.0002	1.0061	1.0010	.9999
17		1.0010	.9887		.9967	1.0001	.9986	1.0034	1.0020		1.0035	1.0016	1.0050	1.0009	.9998
18		.9998	.9916		.9956	.9984	.9979	1.0021	1.0027	1.0119	1.0018	1.0001	1.0038	1.0007	.9993
19		.9936	.9944		.9965	1.0002	.9989	1.0029	1.0035	1.0015	1.0031	1.0010	1.0056	1.0005	1.0003
20		.9996	.9924		.9957	.9986	.9988	1.0030	1.0026	1.0015	1.0030	1.0010	1.0056	1.0005	1.0000
21		.9999	.9886		.9968	.9988	.9988	1.0042	1.0008	1.0018	1.0034	1.0017	1.0059	.9993	1.0005
	MEAN	.9962	.9910		.9967	1.0006	.9989	1.0034	1.0021	1.0056	1.0031	1.0008	1.0052	.9998	1.0001
	S.D.	.0083	.0026		.0010	.0017	.0008	.0010	.0013	.0053	.0012	.0010	.0018	.0010	.0008

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20	23	24	MEAN	S.D.
984.0	979.6	981.0	982.51	4.583
984.0	979.6	981.0	982.21	3.572
983.0	980.4	981.5	982.57	2.838
984.0	980.8	982.0	984.07	4.236
985.0	981.2	982.0	984.88	5.243
985.0	981.0	982.0	983.97	2.917
985.0	981.1	982.0	982.77	5.454
986.0	982.1	983.0	985.06	3.746
987.0	981.5	983.0	984.51	3.886
988.0	982.0	983.0	984.41	4.666
989.0	981.3	984.0	982.91	8.724
989.0	981.0	983.5	983.34	6.711
989.0	981.6	983.5	985.76	3.886
989.0	981.4	984.0	985.31	4.013
988.0	981.3	983.0	985.04	4.405
987.0	980.8	982.5	984.04	3.867
987.0	981.4	982.5	984.08	3.862
985.0	980.4	982.0	984.31	4.335
985.0	979.5	981.0	982.51	3.310
985.0	979.3	981.0	982.49	3.194
986.0	979.2	981.0	982.23	3.939

1.0015	.9970	.9985
1.0018	.9973	.9988
1.0004	.9973	.9989
.9999	.9967	.9979
1.0001	.9963	.9971
1.0010	.9970	.9980
1.0023	.9983	.9992
1.0010	.9970	.9979
1.0025	.9969	.9985
1.0037	.9976	.9986
1.0062	.9984	1.0011
1.0058	.9976	1.0002
1.0033	.9958	.9977
1.0037	.9960	.9987
1.0030	.9962	.9979
1.0030	.9967	.9984
1.0030	.9973	.9984
1.0007	.9960	.9977
1.0025	.9969	.9985
1.0026	.9967	.9985
1.0038	.9969	.9987
1.0025	.9970	.9985
.0017	.0007	.0009

TABLE 3-7

THIRD INTERCOMPARISON - NOVEMBER 5, 1979
 RUN 7: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	14:02:00	979.2	973.0		974.9	977.4	977.8	980.9	986.0		980.8	979.0	977.0	980.0	978.4
2	14:02:30	979.2	972.0		973.2	976.7	976.9	980.9	985.0	980.0	979.0	976.7	975.0	979.0	977.6
3	14:03:00	977.3	972.0		973.2	975.9	975.5	979.9	983.0	984.0	977.9	976.9	974.0	977.0	976.4
4	14:03:30	975.3	971.0		972.4	974.4	974.0	978.9	982.0	988.0	977.7	974.9	973.0	976.0	978.4
5	14:04:00	981.2	971.0		974.0	976.7	975.9	980.9	982.0	971.0	977.7	975.9	975.0	977.0	976.3
6	14:04:30	978.2	969.0		971.5	976.7	975.2	978.9	980.0	980.0	978.4	974.2	974.0	975.0	974.7
7	14:05:00	975.3	967.0		971.5	976.7	972.8	976.8	979.0	984.0	977.6	974.2	972.0	975.0	974.1
8	14:05:30	969.4	966.0		971.5	973.6	973.9	977.8	976.0		976.9	973.6	972.5	974.0	974.0
9	14:06:00	969.4	958.0		970.7	974.4	972.4	976.8	973.0	984.0	976.9	973.2	973.0	973.0	974.2
10	14:06:30	971.4	954.0		970.7	972.9	970.8	976.8	973.0	988.0	977.6	973.0	973.0	971.0	973.3
11	14:07:00	975.3	957.0		970.7	973.6	972.6	976.8	977.0	992.0	976.1	972.7	974.0	973.0	973.5
12	14:07:30	972.4	956.0		969.8	972.1	972.2	975.8	976.0	980.0	977.0	972.7	973.5	972.0	972.6
13	14:08:00	972.4	964.0		969.0	971.4	971.4	974.8	976.0		976.5	971.9	971.5	972.0	971.5
14	14:08:30	976.3	963.0		969.0	972.1	972.3	975.8	977.0		974.6	973.0	972.0	972.0	971.8
15	14:09:00	973.3	962.0		969.0	972.9	971.3	974.8	977.0		974.9	972.7	971.0	972.0	971.3
16	14:09:30	966.5	958.0		969.0	972.1	972.0	975.8	978.0	984.0	974.0	972.4	971.0	973.0	971.5
17	14:10:00	963.5	963.0		968.1	972.9	970.8	974.8	977.0	980.0	974.0	971.9	970.0	971.0	970.6
18	14:10:30	970.4	961.0		968.1	972.1	969.8	973.8	977.0	980.0	972.9	971.8	969.0	971.5	969.9
19	14:11:00	970.4	964.0		967.3	972.1	969.0	973.8	977.0	975.0	972.0	970.1	968.0	971.5	969.5
20	14:11:30	970.4	963.0		966.4	972.1	968.5	972.8	976.0	984.0	971.2	970.1	967.0	970.5	968.9
21	14:12:00	967.5	963.0		967.3	971.4	968.2	972.8	975.0	980.0	970.2	971.5	967.0	970.0	968.8
1		1.0008	.9945		.9964	.9990	.9994	1.0025	1.0078		1.0024	1.0006	.9986	1.0016	1.0000
2		1.0019	.9945		.9957	.9993	.9995	1.0036	1.0078	1.0027	1.0016	.9993	.9976	1.0016	1.0002
3		1.0006	.9951		.9964	.9991	.9987	1.0032	1.0064	1.0074	1.0012	1.0002	.9972	1.0003	.9996
4		.9991	.9947		.9962	.9982	.9978	1.0028	1.0060	1.0122	1.0016	.9987	.9968	.9999	1.0023
5		1.0051	.9946		.9977	1.0005	.9996	1.0048	1.0059	.9946	1.0015	.9996	.9987	1.0008	1.0000
6		1.0028	.9934		.9959	1.0012	.9997	1.0035	1.0046	1.0046	1.0030	.9987	.9985	.9995	.9992
7		1.0007	.9922		.9968	1.0021	.9981	1.0022	1.0045	1.0096	1.0030	.9996	.9973	1.0004	.9994
8		.9961	.9926		.9982	1.0004	1.0007	1.0047	1.0029		1.0038	1.0004	.9993	1.0008	1.0008
9		.9962	.9845		.9975	1.0013	.9993	1.0038	.9999	1.0112	1.0039	1.0001	.9999	.9999	1.0011
10		.9986	.9807		.9979	1.0002	.9980	1.0042	1.0003	1.0157	1.0050	1.0003	1.0003	.9982	1.0006
11		1.0013	.9826		.9966	.9996	.9986	1.0029	1.0031	1.0185	1.0022	.9987	1.0000	.9990	.9995
12		.9999	.9831		.9972	.9996	.9997	1.0034	1.0036	1.0077	1.0046	1.0002	1.0010	.9995	1.0001
13		1.0007	.9921		.9972	.9997	.9997	1.0032	1.0044		1.0049	1.0002	.9998	1.0003	.9998
14		1.0042	.9905		.9967	.9999	1.0001	1.0037	1.0049		1.0025	1.0008	.9998	.9998	.9996
15		1.0017	.9901		.9973	1.0013	.9996	1.0032	1.0055		1.0033	1.0011	.9993	1.0004	.9996
16		.9945	.9857		.9970	1.0002	1.0001	1.0040	1.0063	1.0125	1.0022	1.0005	.9991	1.0011	.9996
17		.9922	.9917		.9970	1.0019	.9997	1.0039	1.0061	1.0092	1.0030	1.0009	.9989	.9999	.9995
18		.9993	.9897		.9970	1.0011	.9987	1.0028	1.0061	1.0092	1.0019	1.0008	.9979	1.0005	.9988
19		1.0000	.9934		.9968	1.0017	.9935	1.0035	1.0068	1.0047	1.0016	.9997	.9975	1.0011	.9991
20		1.0000	.9924		.9959	1.0018	.9981	1.0025	1.0058	1.0141	1.0009	.9997	.9965	1.0001	.9985
21		.9976	.9930		.9974	1.0017	.9984	1.0031	1.0054	1.0105	1.0004	1.0018	.9971	1.0002	.9990
MEAN		.9997	.9905		.9969	1.0005	.9991	1.0034	1.0050	1.0090	1.0026	1.0001	.9986	1.0002	.9998
S.D.		.0031	.0045		.0007	.0011	.0008	.0007	.0021	.0056	.0013	.0008	.0013	.0008	.0009

20	23	24	MEAN	S.D.
978.0	976.7	977.0	978.41	2.965
976.0	975.0	976.0	977.39	3.148
975.0	974.4	975.5	976.74	3.251
975.0	973.2	974.0	976.14	4.202
976.0	974.5	975.0	976.26	3.149
975.0	973.4	973.5	975.48	3.066
973.0	972.2	973.0	974.64	3.788
975.0	971.4	972.5	973.21	2.945
976.0	971.8	973.0	973.11	5.215
975.0	970.8	972.5	972.74	6.564
975.0	971.6	973.0	973.99	6.631
975.0	970.6	972.0	972.48	5.105
973.0	969.4	971.0	971.72	3.001
973.0	970.1	971.0	972.20	3.389
972.0	969.6	971.0	971.65	3.382
972.0	969.9	971.0	971.89	5.424
970.0	969.3	970.0	971.06	4.317
971.0	969.0	969.5	971.05	4.100
970.0	968.4	968.5	970.41	3.161
969.0	967.8	968.0	970.36	4.679
969.0	967.4	967.5	969.79	3.887
.9996	.9983	.9986		
.9986	.9976	.9986		
.9982	.9976	.9987		
.9988	.9970	.9978		
.9997	.9982	.9987		
.9995	.9979	.9980		
.9983	.9975	.9983		
1.0018	.9981	.9993		
1.0030	.9987	.9999		
1.0023	.9980	.9998		
1.0010	.9975	.9990		
1.0026	.9981	.9995		
1.0013	.9976	.9993		
1.0008	.9978	.9988		
1.0004	.9979	.9993		
1.0001	.9980	.9991		
.9989	.9982	.9989		
.9999	.9979	.9984		
.9996	.9979	.9980		
.9986	.9974	.9976		
.9992	.9975	.9976		
1.0001	.9978	.9987		
.0014	.0004	.0007		

TABLE 3- 8

THIRD INTERCOMPARISON - NOVEMBER 5, 1979
 RUN 8: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----														
		1	3	5	7	8	9	10	11	12	13	14	17	18	19	
1	14:22:00	959.3	949.0		958.8	963.1	960.8	964.6	962.0	966.0	965.6	962.4	964.0	962.0	961.8	
2	14:22:30	941.7	948.0		957.4	963.1	960.3	964.6	961.0	966.0	965.2	960.4	964.0	962.0	961.5	
3	14:23:00	959.3	944.0		957.9	962.3	960.2	964.6	961.0	966.0	964.5	960.0	963.0	962.0	961.0	
4	14:23:30	961.2	952.0		957.9	963.1	960.0	964.6	962.0	966.0	964.5	961.4	963.0	963.5	961.4	
5	14:24:00	960.3	951.0		957.9	963.1	959.8	964.6	963.0	962.0	964.0	961.3	962.0	963.0	961.2	
6	14:24:30	959.3	950.0		957.1	960.8	959.3	963.6	962.0	962.0	963.7	960.5	962.0	962.0	960.1	
7	14:25:00	952.4	939.0		956.2	961.6	958.8	963.6	960.0	962.0	963.1	960.9	962.0	961.0	960.3	
8	14:25:30	953.4	943.0		955.4	959.3	957.3	962.6	958.0		962.6	959.0	961.0	960.0	959.2	
9	14:26:00	954.4	943.0		955.4	957.8	957.6	961.6	958.0		961.8	959.5	960.0	959.5	958.5	
10	14:26:30	952.4	936.0		954.5	957.8	956.4	960.5	957.0	966.0	961.2	957.0	960.0	958.0	957.7	
11	14:27:00	952.4	938.0		952.8	956.3	956.1	960.5	956.0	953.0	960.4	956.8	959.0	957.0	956.4	
12	14:27:30	951.5	943.0		952.0	957.0	954.7	958.5	955.0	962.0	959.1	955.4	958.0	957.0	955.7	
13	14:28:00	953.4	944.0		952.0	955.5	954.2	958.5	955.0	962.0	958.4	955.8	957.0	956.5	955.6	
14	14:28:30	956.3	947.0		952.0	955.5	954.7	959.5	957.0	958.0	958.0	956.0	957.0	956.0	955.3	
15	14:29:00	949.5	939.0		952.8	955.5	954.9	960.5	956.0	966.0	958.0	955.8	957.0	956.0	955.6	
16	14:29:30	952.4	925.0		952.8	956.3	954.9	959.5	953.0	962.0	958.6	956.5	958.0	955.5	955.8	
17	14:30:00	955.4	943.0		952.8	955.5	955.4	959.5	955.0	966.0	959.8	957.0	959.0	956.0	956.1	
18	14:30:30	951.5	946.0		952.8	954.8	955.1	959.5	957.0	962.0	960.3	956.2	958.0	957.0	955.6	
19	14:31:00	953.4	939.0		952.8	954.8	954.6	960.5	956.0	958.0	959.9	956.9	958.0	956.0	955.5	
20	14:31:30	950.5	934.0		952.0	955.5	954.4	959.5	955.0	958.0	959.5	956.9	957.0	955.0	955.0	
21	14:32:00	951.5	938.0		952.0	955.5	954.5	958.5	955.0	958.0	959.0	956.6	958.0	955.0	954.8	
1		.9978	.9871		.9973	1.0017	.9994	1.0033	1.0006	1.0048	1.0043	1.0010	1.0027	1.0006	1.0004	
2		.9812	.9878		.9976	1.0035	1.0006	1.0051	1.0013	1.0065	1.0057	1.0007	1.0044	1.0024	1.0018	
3		.9989	.9829		.9974	1.0020	.9998	1.0044	1.0006	1.0059	1.0043	.9996	1.0027	1.0017	1.0006	
4		.9999	.9933		.9965	1.0019	.9986	1.0034	1.0007	1.0049	1.0033	1.0001	1.0018	1.0023	1.0001	
5		.9996	.9839		.9971	1.0025	.9991	1.0041	1.0024	1.0014	1.0034	1.0006	1.0014	1.0024	1.0005	
6		.9993	.9836		.9970	1.0008	.9993	1.0037	1.0021	1.0021	1.0038	1.0005	1.0021	1.0021	1.0001	
7		.9937	.9737		.9977	1.0033	1.0004	1.0054	1.0016	1.0037	1.0049	1.0026	1.0037	1.0027	1.0019	
8		.9956	.9848		.9977	1.0018	.9997	1.0052	1.0004		1.0052	1.0015	1.0036	1.0025	1.0017	
9		.9970	.9851		.9980	1.0005	1.0003	1.0045	1.0007		1.0047	1.0023	1.0028	1.0023	1.0013	
10		.9957	.9736		.9979	1.0014	.9999	1.0042	1.0006	1.0100	1.0049	1.0006	1.0037	1.0016	1.0013	
11		.9972	.9821		.9976	1.0013	1.0011	1.0057	1.0010	.9978	1.0056	1.0018	1.0041	1.0020	1.0014	
12		.9961	.9872		.9967	1.0019	.9995	1.0035	.9998	1.0071	1.0041	1.0002	1.0030	1.0019	1.0005	
13		.9983	.9835		.9969	1.0005	.9992	1.0037	1.0000	1.0073	1.0036	1.0008	1.0021	1.0016	1.0006	
14		1.0012	.9915		.9967	1.0004	.9995	1.0045	1.0019	1.0030	1.0030	1.0009	1.0019	1.0009	1.0002	
15		.9943	.9833		.9978	1.0006	1.0000	1.0058	1.0011	1.0116	1.0032	1.0009	1.0022	1.0011	1.0007	
16		.9982	.9695		.9986	1.0023	1.0008	1.0057	.9989	1.0083	1.0047	1.0025	1.0041	1.0015	1.0018	
17		.9993	.9863		.9965	.9994	.9993	1.0036	.9988	1.0104	1.0039	1.0009	1.0030	.9999	1.0000	
18		.9956	.9899		.9970	.9991	.9994	1.0040	1.0014	1.0066	1.0043	1.0006	1.0024	1.0014	.9999	
19		.9985	.9834		.9978	.9999	.9997	1.0059	1.0012	1.0033	1.0053	1.0021	1.0033	1.0012	1.0007	
20		.9963	.9720		.9979	1.0015	1.0004	1.0057	1.0010	1.0041	1.0057	1.0030	1.0031	1.0010	1.0010	
21		.9971	.9830		.9977	1.0013	1.0003	1.0045	1.0008	1.0039	1.0050	1.0025	1.0039	1.0008	1.0006	
	MEAN	.9967	.9847		.9974	1.0013	.9998	1.0046	1.0008	1.0054	1.0045	1.0012	1.0030	1.0016	1.0008	
	S.D.	.0040	.0052		.0036	.0011	.0006	.0009	.0009	.0034	.0008	.0009	.0009	.0007	.0006	

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20	23	24	MEAN	S.D.
963.0	959.3	961.0	961.42	3.941
962.0	958.6	960.0	959.74	6.366
962.0	958.3	960.0	960.38	4.921
961.0	959.2	960.0	961.30	3.273
959.0	958.8	960.0	960.69	3.228
960.0	958.7	959.0	960.01	3.221
959.0	957.1	958.0	958.44	5.911
959.0	956.7	957.5	957.60	4.731
959.0	956.4	957.0	957.30	4.458
958.0	955.0	956.0	956.47	6.284
957.0	954.2	955.5	955.09	5.150
956.0	953.0	955.0	955.18	4.207
955.0	953.1	954.0	955.00	3.813
953.0	953.2	954.0	955.16	2.958
955.0	953.2	954.0	954.92	5.554
957.0	953.2	955.0	954.09	8.188
957.0	954.6	955.5	956.10	4.626
956.0	953.9	955.0	955.67	3.736
955.0	953.4	954.0	954.86	4.796
955.0	953.4	954.0	954.04	5.870
954.0	953.3	954.0	954.23	4.865

1.0016	.9978	.9996
1.0024	.9988	1.0003
1.0017	.9978	.9996
.9997	.9978	.9986
.9982	.9980	.9993
1.0000	.9986	.9990
1.0006	.9986	.9995
1.0015	.9991	.9999
1.0018	.9991	.9997
1.0016	.9985	.9995
1.0020	.9991	1.0004
1.0009	.9977	.9998
1.0000	.9980	.9990
.9977	.9980	.9988
1.0001	.9982	.9990
1.0030	.9991	1.0009
1.0009	.9984	.9994
1.0003	.9981	.9993
1.0001	.9985	.9991
1.0010	.9993	1.0000
.9998	.9990	.9998
1.0007	.9985	.9995
.0013	.0005	.0006

TABLE 3- 9

THIRD INTERCOMPARISON - NOVEMBER 5, 1979
 RUN 9: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	14:42:00	936.5	920.0		938.3	943.5	941.3	944.0	944.0		944.9	942.9	945.0	942.0	942.2
2	14:42:30	938.5	921.0		937.4	942.0	940.7	944.0	942.0		943.8	942.5	944.0	941.0	941.9
3	14:43:00	940.5	926.0		937.4	942.8	940.0	943.0	941.0	947.0	943.1	942.2	944.0	940.0	941.6
4	14:43:30	939.5	926.0		937.4	942.0	939.8	944.0	942.0		942.9	942.0	944.0	941.0	941.8
5	14:44:00	939.5	926.0		938.3	942.0	940.0	945.0	941.0		943.2	942.1	944.0	941.0	941.5
6	14:44:30	942.4	925.0		936.6	941.3	938.9	943.0	941.0		942.4	939.9	943.0	940.0	940.4
7	14:45:00	937.5	920.0		935.7	940.5	938.2	943.0	940.0	940.0	941.9	940.8	943.0	940.0	940.0
8	14:45:30	938.5	924.0		935.7	940.5	938.4	942.0	940.0		941.1	939.9	942.0	939.0	939.7
9	14:46:00	937.5	918.0		934.9	948.3	937.6	942.0	937.0		940.5	940.1	942.0	938.0	939.2
10	14:46:30	937.5	920.0		934.0	937.5	936.5	941.0	938.0		939.6	939.0	941.0	937.0	937.9
11	14:47:00	938.5	925.0		934.0	937.5	936.3	940.0	938.0	937.0	939.2	937.7	941.0	936.5	937.9
12	14:47:30	939.5	926.0		932.3	935.2	934.5	939.0	938.0		937.9	936.9	940.0	936.0	936.3
13	14:48:00	936.5	918.0		932.3	936.0	934.8	939.0	936.0		937.3	936.3	939.0	936.0	936.1
14	14:48:30	935.5	921.0		933.2	935.2	934.9	939.0	937.0		937.2	935.9	939.0	936.0	936.5
15	14:49:00	936.5	926.0		932.3	934.5	934.2	939.0	937.0	939.0	936.8	936.5	939.0	936.0	935.8
16	14:49:30	937.5	926.0		931.5	933.7	932.9	937.9	937.0		935.5	934.8	938.0	933.0	934.2
17	14:50:00	932.6	925.0		930.6	932.2	932.1	937.9	935.0		935.1	935.9	937.0	933.0	934.0
18	14:50:30	937.5	924.0		930.6	932.2	932.4	936.9	935.0		934.8	933.6	937.0	934.0	933.6
19	14:51:00	936.5	919.0		929.8	933.0	931.4	935.9	935.0	931.0	934.6	937.9	936.0	934.0	933.3
20	14:51:30	931.6	916.0		929.8	933.0	931.5	935.9	933.0		934.5	933.6	936.0	933.0	932.9
21	14:52:00	936.5	924.0		929.8	932.2	931.6	935.9	934.0		933.4	933.3	935.0	932.0	932.4
1		.9955	.9779		.9974	1.0029	1.0006	1.0034	1.0034		1.0044	1.0023	1.0045	1.0013	1.0015
2		.9981	.9795		.9970	1.0019	1.0005	1.0040	1.0019		1.0038	1.0024	1.0040	1.0008	1.0018
3		.9997	.9843		.9964	1.0022	.9992	1.0024	1.0003	1.0066	1.0025	1.0015	1.0035	.9992	1.0009
4		.9990	.9847		.9968	1.0017	.9994	1.0038	1.0017		1.0027	1.0017	1.0038	1.0006	1.0015
5		.9990	.9846		.9977	1.0016	.9995	1.0048	1.0006		1.0029	1.0017	1.0038	1.0006	1.0011
6		1.0029	.9844		.9968	1.0018	.9992	1.0036	1.0014		1.0029	1.0003	1.0036	1.0004	1.0008
7		.9986	.9800		.9967	1.0018	.9994	1.0045	1.0013	1.0013	1.0033	1.0022	1.0045	1.0013	1.0013
8		.9999	.9844		.9969	1.0020	.9998	1.0036	1.0015		1.0026	1.0014	1.0036	1.0004	1.0012
9		.9994	.9786		.9966	1.0109	.9995	1.0042	.9988		1.0026	1.0021	1.0042	.9999	1.0012
10		1.0007	.9820		.9970	1.0007	.9996	1.0044	1.0012		1.0029	1.0023	1.0044	1.0002	1.0011
11		1.0017	.9873		.9969	1.0006	.9994	1.0033	1.0012	1.0001	1.0025	1.0009	1.0044	.9996	1.0011
12		1.0038	.9893		.9961	.9992	.9984	1.0032	1.0022		1.0021	1.0010	1.0043	1.0000	1.0003
13		1.0016	.9818		.9971	1.0011	.9998	1.0043	1.0011		1.0024	1.0014	1.0043	1.0011	1.0012
14		1.0003	.9848		.9978	1.0000	.9997	1.0040	1.0019		1.0021	1.0007	1.0040	1.0008	1.0014
15		1.0010	.9898		.9965	.9989	.9986	1.0037	1.0016	1.0037	1.0013	1.0010	1.0037	1.0005	1.0003
16		1.0036	.9913		.9972	.9995	.9987	1.0040	1.0031		1.0014	1.0007	1.0041	.9988	1.0001
17		.9992	.9911		.9971	.9988	.9987	1.0049	1.0018		1.0019	1.0027	1.0039	.9996	1.0007
18		1.0045	.9900		.9971	.9988	.9990	1.0038	1.0018		1.0016	1.0003	1.0040	1.0007	1.0003
19		1.0039	.9851		.9967	1.0001	.9984	1.0032	1.0022	.9980	1.0018	1.0054	1.0033	1.0012	1.0004
20		.9997	.9830		.9978	1.0012	.9996	1.0043	1.0012		1.0028	1.0019	1.0044	1.0012	1.0011
21		1.0044	.9910		.9973	.9998	.9992	1.0038	1.0018		1.0011	1.0010	1.0028	.9996	1.0001
MEAN		1.0008	.9850		.9970	1.0012	.9993	1.0039	1.0015	1.0019	1.0025	1.0017	1.0040	1.0004	1.0009
S.D.		.0024	.0042		.0004	.0025	.0006	.0006	.0009	.0033	.0008	.0011	.0004	.0007	.0005

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20	23	24	MEAN	S.D.
945.0	941.0	941.0	940.77	6.241
944.0	940.0	941.0	940.25	5.681
944.0	939.4	940.0	940.75	4.548
944.0	939.7	940.0	940.41	4.413
944.0	939.4	940.0	940.47	4.441
943.0	938.7	939.0	939.64	4.471
943.0	937.9	939.0	938.78	5.423
943.0	937.4	938.0	938.61	4.478
942.0	936.7	937.5	938.09	6.431
941.0	935.8	937.0	936.85	5.074
940.0	935.8	936.0	936.90	3.648
939.0	934.1	935.0	935.98	3.545
939.0	933.9	935.0	935.01	5.064
939.0	934.0	935.0	935.23	4.315
938.0	934.0	934.0	935.54	3.235
935.0	932.2	933.0	934.15	3.081
935.0	931.7	933.0	933.34	3.084
935.0	931.1	932.0	933.31	3.331
936.0	931.1	932.0	932.91	4.379
935.0	930.8	931.5	931.87	4.747
934.0	930.2	931.0	932.35	3.020

1.0045	1.0002	1.0002
1.0040	.9997	1.0008
1.0035	.9986	.9992
1.0038	.9992	.9996
1.0038	.9989	.9995
1.0036	.9990	.9993
1.0045	.9991	1.0002
1.0047	.9987	.9993
1.0042	.9985	.9994
1.0044	.9989	1.0002
1.0033	.9988	.9990
1.0032	.9980	.9990
1.0043	.9988	1.0000
1.0040	.9987	.9998
1.0026	.9984	.9984
1.0009	.9979	.9988
1.0018	.9982	.9996
1.0018	.9976	.9986
1.0033	.9981	.9990
1.0034	.9988	.9996
1.0018	.9977	.9985
1.0034	.9987	.9994
.0011	.0006	.0006

TABLE 3-10

THIRD INTERCOMPARISON - NOVEMBER 5, 1979
 RUN 1C: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	15:15:00	898.4	893.0		897.7	902.0	899.3	903.0	903.0		903.1	901.9	903.0	901.0	900.8
2	15:15:30	893.5	890.0		897.7	902.0	899.0	903.0	903.0		902.8	901.9	903.0	901.0	900.6
3	15:16:00	891.5	889.0		896.0	902.0	897.9	902.0	902.0	905.0	901.9	900.6	902.0	900.0	899.6
4	15:16:30	892.5	885.0		895.2	900.5	896.4	900.9	901.0		900.6	900.1	901.0	900.0	898.5
5	15:17:00	887.6	885.0		894.3	899.7	895.7	899.9	899.0		899.5	898.8	899.0	899.0	897.8
6	15:17:30	887.6	884.0		894.3	897.5	895.9	899.9	897.0		899.1	898.8	899.0	899.0	897.7
7	15:18:00	892.5	876.0		893.5	897.5	895.1	898.9	896.0	903.0	898.5	897.7	898.0	897.5	897.0
8	15:18:30	889.6	880.0		893.5	897.5	895.2	899.9	897.0		898.7	899.0	899.0	897.0	896.9
9	15:19:00	889.6	881.0		893.5	896.0	894.3	898.9	896.0		898.4	897.3	898.0	897.0	896.5
10	15:19:30	889.6	874.0		892.6	896.0	893.6	897.9	896.0		897.1	897.9	898.0	896.0	895.6
11	15:20:00	889.6	874.0		890.9	896.0	892.9	896.9	895.0	891.0	896.0	895.2	897.0	895.0	894.2
12	15:20:30	887.6	872.0		889.2	893.7	890.7	894.9	892.0		894.2	893.6	895.0	893.0	892.5
13	15:21:00	885.6	875.0		888.4	891.4	889.3	893.8	891.0		892.2	892.0	893.0	892.0	890.8
14	15:21:30	884.7	875.0		886.7	890.7	888.1	891.8	891.0		890.9	891.7	892.0	890.5	889.9
15	15:22:00	883.7	874.0		885.8	888.4	886.0	890.8	890.0	891.0	889.5	889.7	890.0	890.0	888.0
16	15:22:30	883.7	873.0		884.1	888.4	885.2	889.8	889.0		888.1	887.8	889.0	888.0	887.0
17	15:23:00	883.7	877.0		883.3	886.2	883.9	888.8	888.0		886.9	887.6	887.0	887.0	885.8
18	15:23:30	881.7	869.0		882.4	886.2	883.5	887.8	887.0		886.2	886.9	887.0	886.0	885.4
19	15:24:00	880.7	863.0		881.6	886.2	882.8	887.8	885.0	891.0	886.0	885.7	887.0	885.0	885.0
20	15:24:30	882.7	872.0		880.8	884.6	882.4	886.8	886.0		885.3	885.2	886.0	885.0	884.2
21	15:25:00	880.7	872.0		881.6	886.2	882.5	886.8	885.0		885.3	885.2	886.0	885.0	884.4
1		.9978	.9918		.9970	1.0018	.9988	1.0029	1.0029		1.0030	1.0017	1.0029	1.0007	1.0004
2		.9931	.9892		.9977	1.0025	.9992	1.0036	1.0036		1.0034	1.0024	1.0036	1.0014	1.0010
3		.9915	.9887		.9965	1.0032	.9986	1.0032	1.0032	1.0065	1.0031	1.0016	1.0032	1.0010	1.0005
4		.9944	.9860		.9974	1.0033	.9987	1.0037	1.0038		1.0034	1.0028	1.0038	1.0027	1.0010
5		.9903	.9874		.9978	1.0038	.9994	1.0040	1.0030		1.0036	1.0028	1.0030	1.0030	1.0017
6		.9908	.9867		.9982	1.0018	1.0000	1.0045	1.0013		1.0036	1.0033	1.0035	1.0035	1.0020
7		.9966	.9782		.9977	1.0022	.9995	1.0038	1.0005	1.0083	1.0033	1.0024	1.0027	1.0022	1.0016
8		.9934	.9827		.9978	1.0023	.9997	1.0049	1.0017		1.0036	1.0039	1.0039	1.0017	1.0016
9		.9941	.9845		.9985	1.0013	.9994	1.0045	1.0013		1.0040	1.0027	1.0035	1.0024	1.0018
10		.9951	.9777		.9985	1.0023	.9996	1.0044	1.0023		1.0035	1.0044	1.0045	1.0023	1.0018
11		.9964	.9789		.9979	1.0036	1.0001	1.0046	1.0025	.9980	1.0036	1.0027	1.0047	1.0025	1.0016
12		.9963	.9788		.9981	1.0031	.9997	1.0045	1.0012		1.0037	1.0030	1.0046	1.0023	1.0018
13		.9955	.9836		.9986	1.0020	.9996	1.0047	1.0015		1.0029	1.0027	1.0038	1.0027	1.0013
14		.9955	.9846		.9978	1.0023	.9994	1.0035	1.0026		1.0025	1.0034	1.0038	1.0021	1.0014
15		.9958	.9849		.9982	1.0011	.9984	1.0038	1.0029	1.0040	1.0023	1.0025	1.0029	1.0029	1.0006
16		.9973	.9852		.9978	1.0026	.9990	1.0042	1.0033		1.0023	1.0019	1.0033	1.0022	1.0010
17		.9981	.9905		.9977	1.0009	.9983	1.0039	1.0030		1.0017	1.0025	1.0018	1.0018	1.0005
18		.9972	.9829		.9980	1.0023	.9993	1.0041	1.0032		1.0023	1.0031	1.0032	1.0021	1.0014
19		.9966	.9766		.9977	1.0029	.9990	1.0047	1.0015	1.0083	1.0026	1.0023	1.0038	1.0015	1.0015
20		.9993	.9871		.9971	1.0014	.9989	1.0039	1.0030		1.0022	1.0021	1.0030	1.0019	1.0010
21		.9969	.9871		.9979	1.0031	.9990	1.0038	1.0018		1.0021	1.0020	1.0029	1.0018	1.0011
MEAN		.9953	.9844		.9978	1.0024	.9992	1.0041	1.0024	1.0050	1.0030	1.0027	1.0035	1.0021	1.0013
S.D.		.0024	.0043		.0005	.0008	.0005	.0005	.0009	.0043	.0006	.0007	.0007	.0007	.0005

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20	23	24	MEAN	S.D.
902.0	897.8	900.0	900.40	2.798
902.0	897.5	899.0	899.73	3.804
901.0	897.3	898.5	899.14	4.144
899.0	895.7	897.0	897.56	4.327
897.0	894.8	897.0	896.27	4.441
898.0	894.4	896.0	895.88	4.477
898.0	893.4	896.0	895.54	5.789
899.0	893.8	896.0	895.47	5.065
897.0	893.4	896.0	894.86	4.508
897.0	892.4	895.5	893.95	6.011
896.0	891.6	893.5	892.80	5.508
894.0	889.5	892.0	890.93	5.675
892.0	887.9	890.0	889.63	4.580
891.0	886.9	889.0	888.66	4.350
889.0	885.6	887.5	887.44	4.159
888.0	884.3	886.0	886.09	4.107
887.0	883.4	885.0	885.37	2.905
886.0	882.7	884.5	884.15	4.592
886.0	881.9	884.0	883.67	6.071
885.0	881.4	883.0	883.36	3.600
885.0	881.6	884.0	883.42	3.651

1.0018	.9971	.9996
1.0025	.9975	.9992
1.0021	.9979	.9993
1.0016	.9979	.9994
1.0008	.9984	1.0008
1.0024	.9983	1.0001
1.0027	.9976	1.0005
1.0039	.9981	1.0006
1.0024	.9984	1.0013
1.0034	.9983	1.0017
1.0036	.9987	1.0008
1.0034	.9984	1.0012
1.0027	.9981	1.0004
1.0026	.9980	1.0004
1.0018	.9979	1.0001
1.0022	.9980	.9999
1.0018	.9978	.9996
1.0021	.9984	1.0004
1.0026	.9980	1.0004
1.0019	.9978	.9996
1.0018	.9979	1.0007
1.0024	.9980	1.0003
.0008	.0004	.0007

TABLE 3-11

THIRD INTERCOMPARISON - NOVEMBER 5, 1979
 RUN 11: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	15:35:00	870.8	862.0		865.6	868.8	867.5	871.6	870.0	878.0	870.7	868.8	870.0	868.0	868.5
2	15:35:30	870.8	862.0		865.6	868.1	867.4	871.6	872.0	882.0	870.0	869.8	869.0	869.0	868.0
3	15:36:00	870.8	860.0		864.8	867.3	866.3	870.6	869.0	873.0	869.5	868.4	869.0	867.0	867.6
4	15:36:30	863.9	860.0		863.9	867.3	865.9	869.6	868.0	864.0	868.9	868.7	868.0	866.0	866.8
5	15:37:00	866.9	858.0		863.1	867.3	864.9	869.6	868.0	869.0	868.2	867.0	868.0	865.0	865.9
6	15:37:30	864.9	858.0		862.2	865.8	864.1	868.6	867.0	873.0	868.6	865.0	867.0	864.0	864.8
7	15:38:00	862.9	854.0		861.4	865.1	863.7	867.6	866.0	869.0	867.0	866.1	867.0	863.0	864.3
8	15:38:30	866.9	855.0		858.8	862.1	860.6	864.5	863.0	864.0	865.0	863.1	865.0	862.0	862.2
9	15:39:00	865.9	853.0		858.8	861.3	859.9	864.5	862.0	864.0	864.2	861.9	864.0	861.0	861.1
10	15:39:30	863.9	854.0		858.0	862.1	859.9	863.5	862.0	864.0	863.3	861.6	863.0	860.5	860.5
11	15:40:00	861.0	848.0		856.3	869.0	858.3	862.5	861.0	864.0	862.2	860.2	862.0	859.5	859.2
12	15:40:30	861.0	850.0		855.5	859.0	857.0	861.5	861.0	869.0	860.9	859.7	860.0	858.0	857.8
13	15:41:00	860.0	851.0		854.6	858.3	856.0	860.5	860.0	855.0	859.8	858.5	859.0	857.0	857.1
14	15:41:30	858.0	848.0		853.8	858.3	855.3	860.5	859.0	855.0	859.0	856.6	858.0	857.0	856.2
15	15:42:00	855.1	844.0		853.8	857.5	855.3	859.4	857.0	864.0	859.0	856.4	858.0	855.5	856.6
16	15:42:30	855.1	844.0		853.8	856.0	854.9	859.4	856.0	851.0	858.5	856.7	858.0	855.0	855.8
17	15:43:00	857.0	842.0		852.9	856.8	854.9	858.4	856.0	860.0	858.2	856.9	858.0	855.0	855.3
18	15:43:30	855.1	843.0		852.1	854.5	853.4	857.4	855.0	860.0	857.4	855.6	857.0	854.0	854.4
19	15:44:00	856.1	842.0		850.4	854.5	851.9	858.4	854.0	860.0	855.7	854.3	855.0	853.0	853.1
20	15:44:30	855.1	843.0		849.5	852.3	851.2	858.4	853.0	851.0	855.0	857.9	854.0	853.0	852.2
21	15:45:00	854.1	842.0		849.5	851.5	850.1	858.4	852.0	846.0	854.4	852.1	854.0	851.5	851.3
1		1.0021	.9919		.9961	.9998	.9983	1.0030	1.0012	1.0104	1.0020	.9998	1.0012	.9988	.9994
2		1.0018	.9916		.9958	.9987	.9979	1.0027	1.0031	1.0147	1.0008	1.0006	.9997	.9997	.9985
3		1.0035	.9911		.9966	.9995	.9983	1.0033	1.0014	1.0061	1.0020	1.0007	1.0014	.9991	.9998
4		.9973	.9928		.9973	1.0013	.9996	1.0039	1.0021	.9974	1.0031	1.0029	1.0021	.9998	1.0007
5		1.0011	.9908		.9967	1.0015	.9988	1.0042	1.0023	1.0035	1.0026	1.0012	1.0023	.9989	.9999
6		.9995	.9915		.9964	1.0005	.9986	1.0038	1.0019	1.0088	1.0038	.9996	1.0019	.9984	.9994
7		.9984	.9881		.9967	1.0009	.9993	1.0038	1.0020	1.0054	1.0031	1.0021	1.0031	.9985	1.0000
8		1.0053	.9915		.9959	.9997	.9980	1.0025	1.0008	1.0019	1.0031	1.0009	1.0031	.9996	.9999
9		1.0051	.9901		.9968	.9997	.9981	1.0035	1.0006	1.0029	1.0031	1.0004	1.0029	.9994	.9995
10		1.0033	.9918		.9965	1.0012	.9987	1.0028	1.0011	1.0034	1.0026	1.0006	1.0023	.9994	.9994
11		1.0012	.9861		.9957	1.0105	.9981	1.0029	1.0012	1.0047	1.0026	1.0003	1.0024	.9994	.9991
12		1.0025	.9897		.9961	1.0001	.9978	1.0030	1.0025	1.0118	1.0024	1.0010	1.0013	.9990	.9987
13		1.0032	.9927		.9969	1.0013	.9986	1.0038	1.0032	.9974	1.0030	1.0015	1.0021	.9997	.9999
14		1.0019	.9903		.9970	1.0023	.9988	1.0049	1.0031	.9984	1.0031	1.0003	1.0019	1.0008	.9998
15		.9988	.9858		.9972	1.0016	.9990	1.0038	1.0010	1.0092	1.0033	1.0003	1.0022	.9992	1.0005
16		1.0001	.9871		.9986	1.0012	.9999	1.0052	1.0012	.9953	1.0041	1.0020	1.0035	1.0000	1.0010
17		1.0019	.9843		.9971	1.0017	.9994	1.0035	1.0007	1.0054	1.0033	1.0018	1.0031	.9995	.9999
18		1.0008	.9866		.9973	1.0001	.9988	1.0035	1.0007	1.0065	1.0035	1.0014	1.0030	.9995	1.0000
19		1.0031	.9866		.9964	1.0013	.9982	1.0058	1.0007	1.0077	1.0027	1.0010	1.0018	.9995	.9996
20		1.0030	.9888		.9965	.9998	.9985	1.0069	1.0006	.9982	1.0029	1.0063	1.0017	1.0006	.9996
21		1.0034	.9891		.9980	1.0003	.9987	1.0084	1.0009	.9938	1.0037	1.0010	1.0032	1.0003	1.0001
	MEAN	1.0018	.9895		.9967	1.0011	.9986	1.0041	1.0015	1.0040	1.0029	1.0012	1.0022	.9995	.9997
	S.D.	.0021	.0025		.0007	.0023	.0006	.0015	.0009	.0056	.0007	.0014	.0009	.0006	.0006

20	23	24	MEAN	S.D.
869.0	866.7	868.0	869.00	3.330
869.0	865.9	868.0	869.26	4.196
868.0	865.2	867.5	867.75	2.943
868.0	864.4	866.0	866.21	2.499
866.0	863.7	865.0	865.97	2.819
865.0	862.6	865.0	865.35	3.277
866.0	861.6	864.0	864.29	3.494
864.0	859.5	861.5	862.32	2.881
863.0	858.7	861.0	861.52	3.071
862.0	858.6	860.0	861.06	2.620
860.0	857.4	859.0	859.97	4.346
859.0	855.7	857.0	858.88	3.947
858.0	854.7	856.0	857.22	2.573
857.0	853.8	856.0	856.34	2.912
857.0	853.9	856.0	856.16	4.064
857.0	853.1	855.5	854.99	3.582
857.0	852.8	855.0	855.39	4.063
856.0	851.7	854.0	854.41	3.695
854.0	850.5	852.0	853.43	3.985
853.0	849.6	852.0	852.51	3.577
853.0	848.9	851.0	851.24	3.691

1.0000	.9974	.9988
.9997	.9961	.9985
1.0003	.9971	.9997
1.0021	.9979	.9998
1.0000	.9974	.9989
.9996	.9968	.9996
1.0020	.9969	.9997
1.0019	.9967	.9990
1.0017	.9967	.9994
1.0011	.9971	.9988
1.0000	.9970	.9989
1.0001	.9963	.9978
1.0009	.9971	.9986
1.0008	.9970	.9996
1.0010	.9974	.9998
1.0024	.9978	1.0006
1.0019	.9970	.9995
1.0019	.9968	.9995
1.0007	.9966	.9983
1.0006	.9966	.9994
1.0021	.9973	.9997
1.0010	.9970	.9992
.0009	.0004	.0006

TABLE 3-12

THIRD INTERCOMPARISON - NOVEMBER 5, 1979
 RJN 12: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	5	5	7	8	9	10	11	12	13	14	17	18	19
1	15:56:00	816.4			813.1	817.5	815.2		820.0		818.2	816.7	817.0	816.0	816.2
2	15:56:30	814.5			810.6	814.5	812.6	815.1	818.0		816.4	815.2	816.0	814.0	814.7
3	15:57:00	810.5			809.7	813.0	811.6		816.0		814.7	813.7	814.0	812.5	813.3
4	15:57:30	806.6			808.0	812.2	810.2		814.0		813.1	811.5	812.0	810.5	811.7
5	15:58:00	803.7			806.3	810.0	808.1	812.1	811.0		811.8	810.9	811.0	808.5	809.8
6	15:58:30	802.7			805.5	808.5	806.4	811.1	808.0	817.0	810.6	807.7	810.0	807.0	808.6
7	15:59:00	802.7	795.0		804.6	807.7	806.2	810.0	807.0	812.0	809.2	807.5	809.0	805.0	807.6
8	15:59:30	803.7	797.0		802.1	804.7	803.8	807.0	806.0	808.0	807.5	809.7	808.0	804.0	805.4
9	16:00:00	802.7	799.0		801.2	804.7	802.8	806.0	806.0	808.0	806.1	803.7	806.0	804.0	803.9
10	16:00:30	802.7	798.0		800.4	804.7	802.2	806.0	806.0	812.0	805.0	802.9	805.0	802.5	803.0
11	16:01:00	799.6	795.0		798.7	802.4	800.8	804.0	806.0	812.0	803.5	802.0	804.0	801.0	801.5
12	16:01:30	798.6	797.0		798.7	800.9	799.8	805.0	803.0	812.0	802.5	801.9	802.0	801.0	801.3
13	16:02:00	797.8	791.0		797.8	800.9	799.1	802.9	802.0	798.0	801.8	800.7	802.0	799.0	800.2
14	16:02:30	795.8	792.0		797.0	800.2	797.9	801.9	801.0	798.0	800.8	799.5	801.0	799.0	798.9
15	16:03:00	793.9	793.0		796.2	799.4	797.7	801.4	801.0	805.0	800.7	799.4	801.0	799.0	798.8
16	16:03:30	794.9	783.0		794.5	797.2	795.8	799.4	798.0	808.0	799.1	797.5	799.0	796.0	797.0
17	16:04:00	791.9	785.0		792.8	794.9	793.9	797.9	797.0	808.0	797.1	795.9	797.0	794.5	795.3
18	16:04:30	794.9	777.0		791.1	794.2	792.5	795.9	794.0	798.0	796.0	794.2	796.0	793.0	793.8
19	16:05:00	792.9	777.0		790.2	791.9	791.4	794.8	792.0	801.0	794.4	791.2	795.0	791.0	792.3
20	16:05:30	793.9	775.0		787.7	791.9	789.5	793.8	791.0		792.0	791.3	793.0	790.0	790.6
21	16:06:00	790.0	765.0		786.0	788.9	787.8	791.8	789.0	807.0	790.9	789.5	792.0	788.0	789.0
1		1.0001			.9961	1.0015	.9987		1.0045		1.0023	1.0005	1.0009	.9996	.9999
2		1.0002			.9954	1.0002	.9979	1.0009	1.0045		1.0025	1.0011	1.0020	.9996	1.0004
3		.9973			.9963	1.0004	.9987		1.0041		1.0025	1.0012	1.0016	.9998	1.0008
4		.9948			.9965	1.0017	.9992		1.0039		1.0028	1.0008	1.0015	.9996	1.0011
5		.9932			.9964	1.0010	.9986	1.0036	1.0022		1.0032	1.0021	1.0022	.9991	1.0007
6		.9930			.9965	1.0002	.9976	1.0034	.9996	1.00107	1.0028	.9992	1.0021	.9984	1.0003
7		.9953	.9858		.9977	1.0015	.9997	1.0044	1.0006	1.00368	1.0034	1.0013	1.0031	.9982	1.0014
8		.9982	.9895		.9962	.9595	.9983	1.0023	1.0011	1.0036	1.0029	1.0057	1.0036	.9986	1.0003
9		.9984	.9938		.9965	1.0009	.9985	1.0025	1.0025	1.00350	1.0026	.9996	1.0025	1.0000	.9999
10		.9989	.9931		.9960	1.0014	.9983	1.0030	1.0030	1.00105	1.0016	.9992	1.0018	.9987	.9993
11		.9971	.9911		.9957	1.0003	.9983	1.0023	1.0048	1.00123	1.0017	.9998	1.0023	.9986	.9992
12		.9965	.9942		.9964	.9991	.9977	1.0042	1.0017	1.00130	1.0011	1.0004	1.0005	.9992	.9996
13		.9979	.9894		.9979	1.0018	.9995	1.0043	1.0032	.9982	1.0029	1.0015	1.0032	.9994	1.0009
14		.9964	.9917		.9979	1.0019	.9991	1.0041	1.0029	.9592	1.0027	1.0011	1.0029	1.0004	1.0003
15		.9940	.9929		.9969	1.0009	.9988	1.0034	1.0029	1.0054	1.0025	1.0009	1.0029	1.0004	1.0002
16		.9977	.9827		.9972	1.0005	.9988	1.0033	1.0016	1.00141	1.0029	1.0009	1.0028	.9990	1.0003
17		.9955	.9881		.9967	.9993	.9981	1.0031	1.0019	1.00158	1.0021	1.0006	1.0019	.9988	.9998
18		1.0022	.9796		.9974	1.0013	.9991	1.0034	1.0010	1.0061	1.0036	1.0013	1.0036	.9998	1.0008
19		1.0010	.9809		.9976	.9997	.9991	1.0034	.9998	1.00137	1.0029	.9988	1.0036	.9986	1.0002
20		1.0046	.9845		.9967	1.0020	.9990	1.0045	1.0009		1.0032	1.0013	1.0034	.9996	1.0004
21		1.0012	.9734		.9962	.9998	.9985	1.0035	1.0000	1.00228	1.0024	1.0006	1.0038	.9987	1.0000
	MEAN	.9978	.9874		.9967	1.0007	.9986	1.0033	1.0022	1.0091	1.0026	1.0008	1.0025	.9992	1.0003
	S.D.	.0030	.0061		.0007	.0009	.0006	.0009	.0016	.0066	.0006	.0014	.0009	.0007	.0006

20	23	24	MEAN	S.D.
816.0	813.6	816.0	816.30	1.789
814.0	811.6	813.5	814.34	1.909
813.0	810.9	812.0	812.68	1.754
811.0	809.3	810.5	810.82	2.011
810.0	807.4	808.5	809.22	2.325
809.0	805.8	807.0	808.33	3.221
809.0	804.7	806.5	806.48	3.848
807.0	803.3	805.0	805.14	2.997
805.0	802.1	803.0	804.01	2.230
804.0	800.9	802.0	803.58	3.095
803.0	799.4	801.0	802.13	3.573
802.0	799.0	801.0	801.62	3.382
801.0	797.7	799.5	799.46	2.821
800.0	796.9	798.5	798.65	2.456
800.0	796.3	798.0	798.67	2.734
798.0	794.8	796.0	796.76	4.841
797.0	793.0	795.0	795.45	4.415
796.0	791.3	793.0	793.18	4.696
795.0	790.1	792.0	792.14	5.080
792.0	788.7	790.0	790.28	3.847
791.0	786.9	788.5	789.02	7.336
.9996	.9967	.9996		
.9996	.9966	.9990		
1.0004	.9978	.9992		
1.0002	.9981	.9996		
1.0010	.9977	.9991		
1.0008	.9969	.9984		
1.0031	.9978	1.0000		
1.0023	.9977	.9998		
1.0012	.9976	.9987		
1.0005	.9967	.9980		
1.0011	.9966	.9986		
1.0005	.9967	.9992		
1.0019	.9978	1.0000		
1.0017	.9978	.9998		
1.0017	.9970	.9992		
1.0016	.9975	.9990		
1.0019	.9969	.9994		
1.0036	.9976	.9998		
1.0036	.9974	.9998		
1.0022	.9980	.9996		
1.0025	.9973	.9993		
1.0015	.9974	.9993		
.0012	.0005	.0005		

TABLE 3-13

THIRD INTERCOMPARISON - NOVEMBER 5, 1979
 RUN 13: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	16:17:00	749.8	741.0		749.6	750.7	750.5	752.8	754.0		754.0	752.4	754.0	750.5	751.6
2	16:17:30	749.8	741.0		747.0	748.5	747.8	751.8	752.0		751.2	749.7	751.0	749.0	749.1
3	16:18:00	745.9	739.0		745.3	747.0	746.1	748.8	750.0	756.0	749.6	747.7	750.0	747.0	747.3
4	16:18:30	746.9	738.0		742.8	744.7	743.5	746.8	747.0		746.9	746.3	747.0	744.5	744.8
5	16:19:00	744.9	738.0		740.3	741.7	741.2	744.7	746.0		744.8	744.1	745.0	743.0	742.7
6	16:19:30	739.0	730.0		738.6	741.0	739.2	742.7	742.0		742.6	741.7	743.0	739.0	740.6
7	16:20:00	737.1	729.0		736.0	738.0	737.1	739.7	740.0	747.0	740.2	739.0	740.0	737.0	737.6
8	16:20:30	736.1	727.0		733.5	735.0	734.1	736.6	737.0		737.4	736.7	738.0	735.0	735.3
9	16:21:00	735.1	726.0		731.8	733.5	732.4	735.6	736.0		735.3	735.3	736.0	733.0	733.7
10	16:21:30	732.2	724.0		729.2	731.2	729.9	733.6	733.0		733.0	733.3	734.0	731.0	731.5
11	16:22:00	730.2	719.0		726.7	728.2	727.1	730.5	730.0	750.0	730.5	729.2	731.0	728.0	729.0
12	16:22:30	728.2	720.0		723.3	724.4	724.4	726.5	728.0		727.4	726.6	728.0	725.5	725.7
13	16:23:00	724.3	716.0		719.9	721.4	720.7	723.4	725.0		723.7	722.3	724.0	722.0	722.5
14	16:23:30	722.3	714.0		718.2	719.2	719.1	722.4	723.0		721.3	721.2	722.0	720.0	720.3
15	16:24:00	721.4	713.0		716.5	718.4	717.3	720.4	722.0	728.0	719.7	719.5	720.0	718.0	718.3
16	16:24:30	720.4	712.0		714.8	716.9	715.4	719.4	720.0		718.1	718.0	718.0	716.5	717.0
17	16:25:00	718.4	709.0		712.3	713.9	713.3	716.4	718.0		716.0	716.6	716.0	714.0	715.0
18	16:25:30	716.4	709.0		709.8	712.4	710.4	714.3	715.0		713.7	714.2	713.0	712.0	712.7
19	16:26:00	713.5	703.0		707.2	708.7	707.6	711.3	712.0	756.0	710.4	709.5	710.0	708.0	709.3
20	16:26:30	709.6	700.0		702.1	706.4	704.6	709.2	709.0		708.3	705.5	708.0	705.0	706.4
21	16:27:00	705.6	697.0		700.4	702.7	701.4	704.2	705.0		704.5	703.8	704.0	701.0	702.8
1		.9985	.9867		.9982	.9997	.9994	1.0025	1.0040		1.0040	1.0019	1.0040	.9994	1.0009
2		1.0012	.9895		.9975	.9995	.9985	1.0039	1.0042		1.0031	1.0011	1.0028	1.0002	1.0003
3		.9979	.9887		.9971	.9994	.9982	1.0018	1.0034	1.0114	1.0029	1.0003	1.0034	.9994	.9998
4		1.0028	.9908		.9973	.9998	.9982	1.0026	1.0029		1.0028	1.0020	1.0029	.9995	.9999
5		1.0028	.9935		.9966	.9985	.9978	1.0026	1.0043		1.0027	1.0018	1.0030	1.0003	.9999
6		.9988	.9866		.9982	1.0015	.9990	1.0038	1.0028		1.0036	1.0024	1.0042	.9988	1.0009
7		.9985	.9876		.9970	.9997	.9985	1.0020	1.0025	1.0119	1.0027	1.0011	1.0025	.9984	.9992
8		1.0014	.9890		.9978	.9999	.9986	1.0020	1.0026		1.0031	1.0022	1.0039	.9999	1.0003
9		1.0021	.9897		.9976	.9999	.9984	1.0028	1.0033		1.0024	1.0024	1.0033	.9992	1.0002
10		1.0013	.9901		.9972	.9995	.9982	1.0032	1.0024		1.0024	1.0028	1.0038	.9997	1.0003
11		1.0024	.9871		.9976	.9997	.9982	1.0029	1.0022	1.0022	1.0029	1.0011	1.0035	.9994	1.0008
12		1.0036	.9923		.9968	.9984	.9984	1.0013	1.0033		1.0025	1.0014	1.0033	.9999	1.0002
13		1.0032	.9917		.9971	.9992	.9982	1.0019	1.0042		1.0024	1.0004	1.0028	1.0000	1.0007
14		1.0032	.9917		.9975	.9985	.9988	1.0033	1.0042		1.0018	1.0017	1.0028	1.0000	1.0004
15		1.0033	.9916		.9965	.9991	.9976	1.0019	1.0041	1.0125	1.0039	1.0007	1.0013	.9986	.9990
16		1.0049	.9932		.9971	1.0000	.9979	1.0035	1.0043		1.0017	1.0015	1.0015	.9994	1.0001
17		1.0053	.9922		.9968	.9990	.9982	1.0025	1.0048		1.0020	1.0028	1.0020	.9992	1.0006
18		1.0056	.9953		.9964	1.0000	.9972	1.0027	1.0037		1.0019	1.0026	1.0009	.9995	1.0004
19		1.0067	.9919		.9978	.9999	.9984	1.0036	1.0046	.9961	1.0023	1.0011	1.0018	.9990	1.0008
20		1.0050	.9914		.9944	1.0005	.9979	1.0044	1.0041		1.0032	.9992	1.0027	.9985	1.0005
21		1.0045	.9922		.9971	1.0003	.9985	1.0025	1.0036		1.0029	1.0019	1.0022	.9979	1.0005
MEAN		1.0025	.9996		.9971	.9997	.9983	1.0027	1.0036	1.0068	1.0026	1.0015	1.0028	.9993	1.0003
S.D.		.0025	.0024		.0008	.0007	.0005	.0008	.0008	.0073	.0007	.0009	.0009	.0006	.0005

20	23	24	MEAN	S.D.
752.0	750.0	751.5	750.96	3.148
749.0	747.4	749.0	748.89	2.658
747.0	745.7	747.0	747.46	3.433
745.0	743.4	745.0	744.84	2.372
742.0	741.1	742.5	742.80	2.163
741.0	738.4	740.0	739.92	3.155
739.0	736.3	738.0	738.19	3.548
736.0	733.8	735.0	735.10	2.603
734.0	731.9	734.0	733.57	2.529
732.0	729.8	731.0	731.25	2.475
729.0	727.3	729.0	728.42	2.828
726.0	724.3	725.5	725.59	2.150
722.0	720.8	722.0	722.00	2.194
720.0	716.9	720.0	719.99	2.354
717.0	717.0	718.0	719.03	3.219
716.0	715.1	716.0	716.91	2.199
713.0	713.0	714.0	714.59	2.420
711.0	710.3	711.5	712.38	2.094
708.0	707.4	708.0	708.74	2.485
706.0	705.0	706.0	706.07	2.634
702.0	700.5	702.0	702.46	2.227

1.0014	.9987	1.0007
1.0002	.9980	1.0002
.9994	.9976	.9994
1.0002	.9981	1.0002
.9989	.9977	.9996
1.0015	.9979	1.0001
1.0011	.9974	.9997
1.0012	.9982	.9999
1.0006	.9977	1.0006
1.0010	.9980	.9997
1.0008	.9985	1.0008
1.0006	.9982	.9999
1.0000	.9983	1.0000
1.0000	.9957	1.0000
.9972	.9972	.9986
.9987	.9975	.9987
.9978	.9978	.9992
.9981	.9971	.9988
.9990	.9981	.9990
.9999	.9985	.9999
.9993	.9972	.9993

.9998	.9978	.9997
.0012	.0007	.0006

TABLE 3-14

THIRD INTERCOMPARISON - NOVEMBER 8, 1979
 RUN 14: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	14:08:00		925.3		926.8	935.2			936.0		933.3	930.0	934.0	932.0	
2	14:08:30		921.3		925.9	933.0			935.0		931.9	929.7	933.0	930.0	929.8
3	14:09:00		921.0		925.9	932.2			933.0	947.0	931.4	929.0	932.0	929.0	929.2
4	14:09:30		920.0		926.8	934.5			935.0		932.1	930.0	933.0	931.0	930.0
5	14:10:00		922.0		928.5	935.0			936.0		933.0	931.4	934.0	932.0	931.1
6	14:10:30		923.0		929.3	935.7			937.0		934.8	932.6	935.0	934.0	932.7
7	14:11:00		933.0		931.9	938.2			938.0		935.8	932.9	936.0	935.0	933.7
8	14:11:30		928.0		932.7	940.5			940.0		937.5	934.8	938.0	936.0	935.0
9	14:12:00		932.0		932.7	939.7			940.0	936.0	937.8	935.3	938.0	937.0	935.3
10	14:12:30		935.0		932.7	939.0			940.0		937.7	935.3	938.0	937.0	934.8
11	14:13:00		940.0		932.7	938.2			938.0		937.5	934.0	938.0	936.5	934.5
12	14:13:30		931.0		931.0	936.7			937.0		936.6	932.2	937.0	936.0	933.3
13	14:14:00		934.0		931.0	936.7			939.0	938.0	936.0	931.9	936.0	935.0	932.8
14	14:14:30		934.0		930.2	935.2			936.0		935.1	932.4	936.0	934.5	932.0
15	14:15:00		929.0		929.3	934.5			935.0		933.9	930.9	934.0	933.0	930.9
16	14:15:30		920.0		929.3	933.7			935.0		933.3	931.4	935.0	933.0	930.2
17	14:16:00		920.0		929.3	933.0			936.0	947.0	934.0	931.6	935.0	934.0	931.0
18	14:16:30		920.0		928.5	930.7			934.0		933.0	931.8	934.0	933.0	930.2
19	14:17:00		921.0		926.8	930.7			933.0		931.2	928.6	932.0	931.0	928.5
20	14:17:30		920.0		925.9	928.5			932.0		930.0	928.1	931.0	930.0	927.3
21	14:18:00		914.0		925.1	928.5			931.0	925.0	928.9	928.2	930.0	929.0	926.7
1			.9924		.9953	1.0043			1.0052		1.0023	.9988	1.0030	1.0009	
2			.9907		.9959	1.0036			1.0057		1.0024	1.0000	1.0036	1.0003	1.0001
3			.9900		.9953	1.0020			1.0029	1.0179	1.0012	.9986	1.0018	.9986	.9988
4			.9853		.9966	1.0049			1.0054		1.0023	1.0000	1.0033	1.0011	1.0000
5			.9901		.9971	1.0051			1.0051		1.0019	1.0002	1.0030	1.0009	.9999
6			.9897		.9965	1.0044			1.0047		1.0024	1.0000	1.0026	1.0015	1.0001
7			.9985		.9973	1.0041			1.0038		1.0015	.9984	1.0017	1.0006	.9992
8			.9920		.9970	1.0053			1.0048		1.0021	.9992	1.0027	1.0005	.9994
9			.9957		.9964	1.0039			1.0042	.9999	1.0019	.9992	1.0021	1.0010	.9992
10			.9988		.9964	1.0031			1.0042		1.0017	.9992	1.0020	1.0010	.9986
11		1.0041		.9964	1.0022			1.0020			1.0015	.9977	1.0020	1.0004	.9983
12		.9964		.9964	1.0025			1.0028			1.0024	.9977	1.0028	1.0018	.9989
13		.9993		.9961	1.0022			1.0046	1.0036		1.0014	.9970	1.0014	1.0003	.9980
14		1.0003		.9962	1.0016			1.0024			1.0015	.9986	1.0024	1.0008	.9982
15		.9967		.9970	1.0026			1.0031			1.0020	.9987	1.0021	1.0010	.9987
16		.9879		.9979	1.0027			1.0041			1.0022	1.0002	1.0041	1.0019	.9989
17		.9853		.9963	1.0002			1.0034	1.0152		1.0013	.9987	1.0024	1.0013	.9981
18		.9837		.9978	1.0002			1.0037			1.0026	1.0013	1.0037	1.0026	.9996
19		.9912		.9975	1.0017			1.0041			1.0022	.9994	1.0031	1.0020	.9993
20		.9913		.9977	1.0005			1.0042			1.0021	1.0000	1.0032	1.0021	.9992
21		.9852		.9982	1.0019			1.0046	.9981		1.0023	1.0016	1.0035	1.0024	1.0000
	MEAN		.9932		.9967	1.0028			1.0041	1.0070	1.0020	.9993	1.0027	1.0011	.9991
	S.D.		.0050		.0008	.0016			.0010	.0091	.0004	.0011	.0007	.0009	.0007

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20	23	24	MEAN	S.D.
931.0	929.5	930.0	931.16	3.399
930.0	928.0	929.0	929.69	3.673
929.0	927.4	928.0	930.32	5.914
930.0	928.3	929.0	929.97	3.975
931.0	929.5	930.0	931.21	3.743
933.0	931.1	932.0	932.60	3.748
934.0	931.9	932.5	934.41	2.200
936.0	933.7	934.0	935.52	3.389
936.0	933.9	935.0	936.05	2.435
936.0	933.6	934.0	936.09	2.264
937.0	933.0	934.0	936.12	2.360
936.0	932.3	933.0	934.34	2.417
936.0	931.9	932.5	934.68	2.531
936.0	931.2	932.0	933.72	2.062
934.0	930.3	930.0	932.07	2.203
934.0	929.8	930.0	931.22	4.091
934.0	930.4	931.0	932.79	5.851
933.0	929.4	929.0	930.55	3.846
931.0	928.0	928.0	929.15	3.187
930.0	927.1	927.0	928.07	3.132
929.0	926.3	926.0	926.75	4.259

.9998	.9982	.9988
1.0003	.9982	.9993
.9986	.9969	.9975
1.0000	.9982	.9990
.9998	.9982	.9987
1.0004	.9984	.9994
.9996	.9973	.9980
1.0005	.9981	.9984
.9999	.9977	.9989
.9999	.9973	.9978
1.0009	.9967	.9977
1.0018	.9978	.9986
1.0014	.9970	.9977
1.0024	.9973	.9982
1.0021	.9981	.9978
1.0030	.9985	.9987
1.0013	.9974	.9981
1.0026	.9988	.9983
1.0020	.9988	.9988
1.0021	.9989	.9988
1.0024	.9995	.9992
1.0010	.9980	.9984
.0012	.0007	.0006

TABLE 3-15

THIRD INTERCOMPARISON - NOVEMBER 8, 1979
 RUN 15: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	14:25:00		926.0		921.6	922.6			932.0	925.0	926.3	924.0	927.0	923.0	924.6
2	14:25:30		917.0		921.6	924.1			930.0	930.0	926.6	924.7	928.0	922.0	924.6
3	14:26:00		916.0		922.5	923.4			931.0	924.0	926.7	925.5	928.0	923.0	924.8
4	14:26:30		911.0		922.5	923.4			933.0	916.0	926.8	926.0	928.0	923.0	925.1
5	14:27:00		912.0		923.3	925.6			932.0	930.0	928.2	926.8	929.0	924.5	926.2
6	14:27:30		919.0		924.2	925.6			933.0	930.0	928.5	927.0	930.0	925.0	926.6
7	14:28:00		922.0		924.2	926.4			934.0	924.0	928.2	926.1	929.0	925.0	926.7
8	14:28:30		927.0		925.0	927.1			934.0	930.0	928.9	928.3	930.0	925.0	927.5
9	14:29:00		932.0		925.0	927.1			933.0	930.0	928.7	927.8	930.0	925.0	927.5
10	14:29:30		925.0		925.0	927.1			935.0	921.0	929.3	928.0	930.0	925.0	927.9
11	14:30:00		923.0		924.2	926.4			932.0	934.0	928.5	926.6	929.0	924.0	927.1
12	14:30:30		922.0		923.3	924.1			932.0	924.0	928.2	925.7	929.0	924.0	926.5
13	14:31:00		922.0		923.3	924.9			932.0	921.0	927.4	925.5	929.0	924.0	926.1
14	14:31:30		921.0		921.6	921.9			931.0	924.0	926.3	924.9	927.0	922.0	924.8
15	14:32:00		919.0		921.6	923.4			930.0	921.0	925.4	923.8	926.0	921.0	924.0
16	14:32:30		925.0		920.8	922.6			929.0	930.0	925.3	924.5	926.0	920.0	923.4
17	14:33:00		921.0		919.9	921.1			929.0	924.0	925.1	922.6	926.0	921.0	923.3
18	14:33:30		920.0		919.9	919.6			928.0	924.0	924.8	923.1	925.0	920.0	922.9
19	14:34:00		924.0		918.3	918.9			925.0	924.0	923.4	921.5	924.0	919.0	921.4
20	14:34:30		914.0		918.3	917.4			925.0	924.0	922.2	921.7	924.0	918.0	920.8
21	14:35:00		911.0		918.3	917.4			926.0	921.0	922.3	920.6	923.0	918.5	920.5
1			1.0014		.9966	.9977			1.0079	1.0003	1.0017	.9992	1.0025	.9982	.9999
2			.9919		.9969	.9996			1.0060	1.0060	1.0023	1.0002	1.0038	.9973	1.0001
3			.9911		.9981	.9991			1.0073	.9998	1.0027	1.0014	1.0041	.9987	1.0006
4			.9865		.9989	.9999			1.0103	.9919	1.0036	1.0027	1.0049	.9995	1.0018
5			.9854		.9976	1.0000			1.0070	1.0048	1.0029	1.0013	1.0037	.9989	1.0007
6			.9919		.9975	.9990			1.0070	1.0037	1.0021	1.0005	1.0037	.9983	1.0001
7			.9955		.9978	1.0002			1.0084	.9976	1.0022	.9999	1.0030	.9987	1.0005
8			.9992		.9971	.9993			1.0068	1.0025	1.0013	1.0006	1.0025	.9971	.9998
9			1.0043		.9967	.9990			1.0053	1.0021	1.0007	.9997	1.0021	.9967	.9994
10			.9977		.9977	.9999			1.0085	.9934	1.0023	1.0009	1.0031	.9977	1.0008
11			.9955		.9968	.9992			1.0052	1.0074	1.0015	.9994	1.0020	.9966	1.0000
12			.9959		.9973	.9981			1.0067	.9980	1.0026	.9999	1.0034	.9980	1.0007
13			.9964		.9978	.9995			1.0072	.9953	1.0022	1.0002	1.0040	.9986	1.0008
14			.9966		.9973	.9976			1.0075	.9999	1.0024	1.0009	1.0031	.9977	1.0007
15			.9953		.9981	1.0000			1.0072	.9975	1.0022	1.0005	1.0029	.9975	1.0007
16			1.0010		.9964	.9984			1.0053	1.0064	1.0013	1.0004	1.0021	.9956	.9992
17			.9978		.9966	.9979			1.0065	1.0011	1.0023	.9996	1.0032	.9978	1.0003
18			.9973		.9972	.9968			1.0059	1.0016	1.0025	1.0006	1.0027	.9973	1.0004
19			1.0026		.9964	.9971			1.0037	1.0026	1.0019	.9999	1.0026	.9972	.9998
20			.9930		.9977	.9967			1.0049	1.0039	1.0019	1.0014	1.0039	.9973	1.0004
21			.9905		.9984	.9974			1.0068	1.0014	1.0028	1.0009	1.0035	.9986	1.0008
MEAN			.9956		.9974	.9987			1.0067	1.0008	1.0022	1.0005	1.0032	.9978	1.0004
S.D.			.0049		.0007	.0011			.0014	.0041	.0006	.0008	.0008	.0009	.0006

20	23	24	MEAN	S.D.
924.0	922.1	923.0	924.71	2.746
924.0	922.7	923.0	924.48	3.583
924.0	922.9	923.0	924.22	3.469
924.0	923.4	923.0	923.48	5.358
925.0	924.6	925.0	925.55	4.775
926.0	925.0	925.0	926.53	3.420
925.0	925.0	925.0	926.20	2.961
926.0	925.4	926.0	927.71	2.559
927.0	925.5	926.0	928.05	2.579
927.0	925.7	927.0	927.15	3.285
927.0	925.1	926.0	927.15	3.135
926.0	924.9	926.0	925.82	2.675
925.0	924.2	925.0	925.34	2.891
923.0	922.9	923.0	924.11	2.753
923.0	922.4	923.0	923.35	2.742
923.0	921.7	922.0	924.10	2.981
922.0	922.1	922.0	923.01	2.495
922.0	921.4	922.0	922.52	2.482
921.0	920.4	920.0	921.61	2.263
921.0	919.4	920.0	920.45	3.079
920.0	919.2	919.0	919.75	3.484
.9992	.9972	.9982		
.9995	.9981	.9984		
.9998	.9986	.9987		
1.0006	.9999	.9995		
.9994	.9990	.9994		
.9994	.9983	.9983		
.9987	.9987	.9987		
.9982	.9975	.9982		
.9989	.9973	.9978		
.9998	.9984	.9998		
.9998	.9978	.9988		
1.0002	.9990	1.0002		
.9996	.9988	.9996		
.9988	.9987	.9988		
.9996	.9990	.9996		
.9988	.9974	.9977		
.9989	.9990	.9989		
.9994	.9988	.9994		
.9993	.9987	.9983		
1.0006	.9989	.9995		
1.0003	.9994	.9992		
.9995	.9985	.9989		
.0006	.0007	.0007		

TABLE 3-16

THIRD INTERCOMPARISON - NOVEMBER 8, 1979
 RUN 16: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	14:45:00		904.0		909.1	913.6			912.0	925.0	916.5	914.4	915.0	911.5	912.7
2	14:45:30		904.0		908.7	913.6			915.0	925.0	916.8	912.6	915.0	912.0	912.8
3	14:46:00		900.0		908.7	913.6			914.0	925.0	915.9	911.2	914.0	911.0	911.6
4	14:46:30		901.0		907.0	912.8			914.0	916.0	916.6	912.7	914.0	911.5	911.7
5	14:47:00		898.0		907.8	912.1			915.0	925.0	916.2	911.1	914.0	911.0	911.4
6	14:47:30		897.0		908.7	912.1			913.0	916.0	915.9	911.2	914.0	911.0	911.3
7	14:48:00		894.0		908.7	912.1			913.0	907.0	916.0	911.8	914.0	911.0	911.2
8	14:48:30		894.0		907.8	911.3			915.0	925.0	914.7	910.7	913.0	911.0	910.4
9	14:49:00		887.0		906.1	910.6			912.0	916.0	913.3	910.0	912.0	909.5	909.0
10	14:49:30		887.0		905.3	909.8			909.0	907.0	912.6	908.8	911.0	908.0	908.1
11	14:50:00		886.0		906.1	909.8			911.0	907.0	912.5	909.3	911.0	908.0	908.2
12	14:50:30		884.0		906.1	909.8			909.0	912.0	912.5	908.8	911.0	908.5	908.1
13	14:51:00		886.0		905.3	909.8			908.0	907.0	912.6	907.6	910.0	908.0	907.3
14	14:51:30		887.0		905.3	908.3			909.0	903.0	912.1	908.0	910.0	908.0	907.7
15	14:52:00		886.0		903.6	907.6			909.0	921.0	911.2	907.5	910.0	907.5	906.7
16	14:52:30		886.0		902.8	906.0			908.0	898.0	909.9	905.6	908.0	905.0	905.0
17	14:53:00		886.0		901.1	904.5			907.0	912.0	909.6	903.9	907.0	905.0	903.7
18	14:53:30		879.0		900.2	904.5			899.0	912.0	907.5	902.7	905.0	902.0	902.8
19	14:54:00		881.0		898.5	903.0			903.0	907.0	906.2	901.0	904.0	902.0	901.7
20	14:54:30		880.0		897.7	901.5			902.0	903.0	904.7	900.0	903.0	901.0	900.3
21	14:55:00		878.0		896.0	900.0			901.0	907.0	904.0	899.4	902.0	899.0	899.3
1			.9900		.9956	1.0005			.9988	1.00130	1.00037	1.00014	1.00021	.9982	.9995
2			.9899		.9950	1.0004			1.0019	1.00129	1.00039	.9993	1.00019	.9986	.9995
3			.9867		.9963	1.0017			1.0021	1.00142	1.00042	.9990	1.00021	.9988	.9995
4			.9884		.9950	1.0013			1.0027	1.00049	1.00055	1.00012	1.00027	.9999	1.0001
5			.9849		.9956	1.0003			1.0035	1.00145	1.00048	.9992	1.00024	.9991	.9996
6			.9846		.9975	1.0012			1.0022	1.00055	1.00054	1.00002	1.00033	1.00000	1.0003
7			.9823		.9985	1.0022			1.0032	.9966	1.00065	1.00019	1.00043	1.00010	1.0012
8			.9814		.9966	1.0004			1.0045	1.00155	1.00042	.9998	1.00023	1.00001	.9994
9			.9763		.9973	1.0023			1.0038	1.00082	1.00052	1.00016	1.00038	1.00011	1.0005
10			.9780		.9982	1.0031			1.0023	1.00001	1.00062	1.00020	1.00045	1.00012	1.0013
11			.9768		.9989	1.0030			1.0043	.9999	1.00060	1.00025	1.00043	1.00010	1.0013
12			.9746		.9989	1.0030			1.0021	1.00054	1.00060	1.00019	1.00043	1.00016	1.0011
13			.9775		.9988	1.0038			1.0018	1.00007	1.00069	1.00014	1.00040	1.00018	1.0010
14			.9789		.9991	1.0024			1.0032	.9966	1.00066	1.00021	1.00043	1.00021	1.0017
15			.9770		.9965	1.0009			1.0024	1.00156	1.00048	1.00008	1.00035	1.00008	.9999
16			.9804		.9990	1.0026			1.0048	.9937	1.00069	1.00021	1.00048	1.00015	1.0015
17			.9804		.9971	1.0009			1.0036	1.00092	1.00065	1.00002	1.00036	1.00014	1.0000
18			.9748		.9983	1.0031			.9970	1.00114	1.00064	1.00011	1.00037	1.00003	1.0012
19			.9780		.9974	1.0024			1.0024	1.00068	1.00060	1.00002	1.00035	1.00013	1.0010
20			.9785		.9982	1.0024			1.0029	1.00040	1.00059	1.00007	1.00040	1.00018	1.0010
21			.9770		.9970	1.0015			1.0026	1.00093	1.00059	1.00008	1.00037	1.00004	1.0007
MEAN			.9808		.9974	1.0019			1.0025	1.00066	1.00056	1.00009	1.00035	1.00006	1.0005
S.D.			.0048		.0013	.0011			.0018	.00067	.00010	.00010	.00009	.00011	.0008

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20	23	24	MEAN	S.D.
914.0	911.2	911.5	913.12	4.730
914.0	911.1	911.5	913.24	4.775
912.0	910.2	910.0	912.09	5.466
913.0	910.2	910.0	911.58	4.068
912.0	909.7	910.0	911.79	5.946
913.0	909.7	910.0	910.99	4.755
912.0	910.2	910.0	910.08	5.337
911.0	908.9	909.0	910.91	6.694
910.0	907.5	908.0	908.54	6.971
910.0	906.7	907.0	906.95	6.302
909.0	906.9	907.0	907.06	6.605
909.0	906.3	907.0	907.08	7.211
909.0	906.0	906.0	906.35	6.423
909.0	906.2	906.0	906.12	6.176
908.0	905.0	905.5	906.82	7.566
906.0	903.6	904.0	903.68	6.053
904.0	902.0	902.5	903.72	6.139
904.0	901.4	902.0	901.70	7.589
903.0	900.0	900.5	900.84	6.408
901.0	898.5	899.0	899.36	6.135
901.0	897.8	898.0	898.65	6.820

1.0010	.9979	.9982
1.0008	.9977	.9981
.9999	.9979	.9977
1.0016	.9985	.9983
1.0002	.9977	.9980
1.0022	.9986	.9989
1.0021	1.0001	.9999
1.0001	.9978	.9979
1.0016	.9989	.9994
1.0034	.9997	1.0001
1.0021	.9998	.9999
1.0021	.9991	.9999
1.0029	.9996	.9996
1.0032	1.0001	.9999
1.0013	.9980	.9985
1.0026	.9999	1.0003
1.0003	.9981	.9987
1.0026	.9997	1.0003
1.0024	.9991	.9996
1.0018	.9990	.9996
1.0026	.9990	.9993
1.0018	.9989	.9992
.0010	.0009	.0009

TABLE 3-17

THIRD INTERCOMPARISON - NOVEMBER 8, 1979
 RUN 17: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	15:05:00		856.0		871.0	874.5			880.0	880.0	876.2	874.3	876.0	875.0	874.5
2	15:05:30		854.0		869.3	873.8			876.0	873.0	874.2	872.4	875.0	872.0	872.0
3	15:06:00		854.0		867.6	871.5			875.0	878.0	874.3	870.9	872.0	870.0	870.1
4	15:06:30		850.0		865.9	869.3			873.0	869.0	872.3	869.0	871.0	868.0	868.5
5	15:07:00		853.0		865.9	870.0			873.0	869.0	870.1	869.0	871.0	869.0	869.2
6	15:07:30		851.0		866.8	871.5			874.0	873.0	870.3	869.1	871.0	868.5	869.2
7	15:08:00		852.0		865.9	870.8			873.0	869.0	870.2	868.2	871.0	869.0	868.6
8	15:08:30		852.0		863.4	868.5			871.0	873.0	868.3	867.4	869.0	867.0	866.9
9	15:09:00		846.0		862.5	866.2			869.0	869.0	866.3	863.9	867.0	865.0	865.1
10	15:09:30		848.0		860.9	866.2			867.0	860.0	865.3	863.9	866.0	864.0	863.8
11	15:10:00		846.0		860.9	864.7			866.0	869.0	865.5	864.5	866.0	863.5	863.6
12	15:10:30		845.0		861.7	864.0			869.0	864.0	865.7	864.6	866.0	864.0	864.0
13	15:11:00		844.0		861.7	864.7			868.0	860.0	865.2	863.8	866.0	864.0	862.9
14	15:11:30		847.0		861.7	864.7			868.0	873.0	865.5	864.5	866.0	865.0	864.0
15	15:12:00		846.0		860.9	864.7			867.0	873.0	864.4	863.5	865.0	864.0	862.7
16	15:12:30		845.0		860.0	864.0			868.0	869.0	864.1	862.4	864.0	863.0	862.7
17	15:13:00		841.0		856.6	861.0			865.0	869.0	860.9	858.9	861.0	860.0	859.6
18	15:13:30		839.0		854.9	858.7			863.0	864.0	858.6	857.8	859.0	857.5	857.8
19	15:14:00		841.0		853.2	857.2			859.0	858.0	856.5	855.3	857.0	855.0	855.3
20	15:14:30		844.0		853.2	857.2			860.0	869.0	856.9	856.5	858.0	855.5	855.8
21	15:15:00		839.0		850.7	855.7			857.0	860.0	855.1	853.9	855.0	853.5	853.8
1			.9799		.9970	1.0010			1.0073	1.0073	1.0030	1.0008	1.0028	1.0016	1.0010
2			.9803		.9979	1.0030			1.0056	1.0021	1.0035	1.0014	1.0044	1.0010	1.0010
3			.9815		.9972	1.0016			1.0057	1.0091	1.0049	1.0009	1.0022	.9999	1.0000
4			.9798		.9981	1.0021			1.0063	1.0017	1.0055	1.0017	1.0040	1.0006	1.0011
5			.9830		.9979	1.0026			1.0061	1.0014	1.0027	1.0014	1.0037	1.0014	1.0017
6			.9801		.9983	1.0037			1.0066	1.0054	1.0023	1.0009	1.0031	1.0002	1.0011
7			.9820		.9980	1.0036			1.0062	1.0016	1.0029	1.0006	1.0039	1.0016	1.0011
8			.9836		.9967	1.0026			1.0055	1.0078	1.0024	1.0013	1.0032	1.0009	1.0008
9			.9794		.9985	1.0028			1.0060	1.0060	1.0029	1.0001	1.0037	1.0014	1.0015
10			.9833		.9983	1.0044			1.0053	.9972	1.0034	1.0017	1.0042	1.0018	1.0016
11			.9805		.9977	1.0021			1.0036	1.0071	1.0031	1.0019	1.0036	1.0007	1.0009
12			.9794		.9987	1.0014			1.0072	1.0014	1.0034	1.0021	1.0037	1.0014	1.0014
13			.9791		.9996	1.0031			1.0069	.9976	1.0037	1.0021	1.0046	1.0023	1.0010
14			.9807		.9977	1.0012			1.0050	1.0108	1.0021	1.0009	1.0027	1.0015	1.0004
15			.9806		.9979	1.0023			1.0049	1.0119	1.0019	1.0009	1.0026	1.0015	1.0000
16			.9803		.9977	1.0024			1.0070	1.0082	1.0025	1.0005	1.0024	1.0012	1.0008
17			.9791		.9973	1.0024			1.0070	1.0117	1.0023	.9999	1.0024	1.0012	1.0008
18			.9793		.9979	1.0023			1.0073	1.0085	1.0022	1.0012	1.0026	1.0009	1.0012
19			.9842		.9985	1.0032			1.0053	1.0041	1.0023	1.0009	1.0029	1.0006	1.0009
20			.9860		.9967	1.0014			1.0047	1.0152	1.0010	1.0006	1.0023	.9994	.9997
21			.9834		.9971	1.0030			1.0045	1.0080	1.0023	1.0009	1.0022	1.0004	1.0008
	MEAN		.9812		.9978	1.0025			1.0059	1.0059	1.0029	1.0011	1.0032	1.0010	1.0009
	S.D.		.0020		.0007	.0009			.0010	.0047	.0010	.0006	.0008	.0007	.0005

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20	23	24	MEAN	S.D.
874.0	872.2	873.0	873.59	5.899
872.0	870.4	871.0	871.16	5.477
870.0	868.6	869.0	870.08	5.621
868.0	866.6	867.0	867.51	5.662
868.0	866.5	867.0	867.75	4.819
869.0	866.8	867.5	868.28	5.646
868.0	866.7	867.0	867.65	5.087
865.0	864.6	865.0	866.24	5.036
864.0	862.7	863.0	863.82	5.773
863.0	861.2	862.0	862.41	4.840
864.0	861.5	862.0	862.86	5.503
864.0	861.9	862.5	862.80	5.675
863.0	861.1	862.0	862.03	5.827
864.0	862.0	862.5	863.68	5.804
862.0	860.8	861.5	862.73	5.963
862.0	860.4	861.0	861.97	5.742
858.0	857.4	858.0	858.95	6.346
856.0	855.2	856.0	856.73	5.977
854.0	852.9	854.0	854.49	4.459
855.0	853.1	854.0	856.02	5.455
854.0	851.2	852.0	853.15	4.905

1.0005	.9984	.9993
1.0010	.9991	.9998
.9999	.9983	.9988
1.0006	.9990	.9994
1.0003	.9986	.9991
1.0008	.9983	.9991
1.0004	.9989	.9993
.9986	.9981	.9986
1.0002	.9987	.9990
1.0007	.9986	.9995
1.0013	.9984	.9990
1.0014	.9990	.9997
1.0011	.9989	1.0000
1.0004	.9980	.9986
.9992	.9978	.9986
1.0000	.9982	.9989
.9989	.9982	.9989
.9991	.9982	.9991
.9994	.9981	.9994
.9988	.9966	.9976
1.0010	.9977	.9987
1.0002	.9983	.9991
.0009	.0006	.0005

TABLE 3-13

THIRD INTERCOMPARISON - NOVEMBER 9, 1979
 RUN 18: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	09:05:00	824.3			825.9	830.4	828.2		834.0	843.0	831.1	829.1	830.0	830.0	829.3
2	09:05:30	825.3	809.0		827.6	831.8	830.1		836.0	839.0	833.3	830.3	833.0	831.0	830.4
3	09:06:00	827.3	830.0		828.4	832.6	831.1		836.0	840.0	833.8	831.1	833.0	832.0	831.5
4	09:06:30	830.2	827.0		828.4	832.6	831.1		837.0	843.0	834.5	831.1	833.0	833.0	831.8
5	09:07:00	831.2	812.0		829.3	834.1	833.0		838.0	839.0	835.2	832.7	834.0	833.0	832.9
6	09:07:30	831.2	814.0		830.9	835.6	834.0		839.0	835.0	835.9	835.7	835.0	834.0	834.0
7	09:08:00	830.2	816.0		831.8	837.1	834.9		840.0	839.0	837.2	834.0	836.0	835.5	834.7
8	09:08:30	834.2	817.0		832.6	837.1	835.8		841.0	835.0	837.9	836.6	837.0	837.0	836.0
9	09:09:00	833.2	818.0		833.5	837.8	836.1		842.0	839.0	838.5	836.8	838.0	837.0	836.5
10	09:09:30	834.2	818.0		834.3	838.5	837.7		842.0	839.0	839.6	837.2	839.0	838.0	837.7
11	09:10:00	835.2	819.0		835.2	839.3	837.9		843.0	843.0	840.5	837.9	839.0	839.0	838.5
12	09:10:30	837.2	820.0		836.9	840.8	839.4		845.0	843.0	841.5	840.2	841.0	840.0	837.6
13	09:11:00	839.2	821.0		837.7	842.3	840.8		846.0	848.0	842.8	840.7	842.0	840.5	840.7
14	09:11:30	839.2	822.0		837.7	841.5	840.9		846.0	848.0	843.2	841.4	842.0	841.5	841.1
15	09:12:00	839.2	822.0		839.4	843.8	841.5		847.0	848.0	843.8	841.9	843.0	842.0	842.1
16	09:12:30	841.1	823.0		839.4	843.8	841.8		848.0	848.0	844.3	842.7	844.0	842.0	842.9
17	09:13:00	846.1	822.0		841.1	844.5	843.2		849.0	848.0	845.6	845.2	845.0	844.0	843.9
18	09:13:30	845.1	821.0		871.9	846.0	845.0		849.0	843.0	846.6	844.8	846.0	844.0	844.4
19	09:14:00	845.1	823.0		842.4	846.7	844.8		851.0	852.0	846.3	845.6	846.0	845.0	844.8
20	09:14:30	844.1	826.0		842.8	847.5	846.2		852.0	852.0	847.5	845.8	847.0	846.0	845.9
21	09:15:00	845.1	827.0		843.6	848.2	845.6		853.0	852.0	847.9	847.6	847.0	847.0	846.2
1		.9930			.9950	1.0004	.9977		1.0047	1.0156	1.0012	.9988	.9999	.9999	.9991
2		.9946	.9750		.9974	1.0024	1.0004		1.0075	1.0111	1.0043	1.0006	1.0039	1.0015	1.0008
3		.9944	.9976		.9957	1.0008	.9990		1.0048	1.0096	1.0022	.9990	1.0012	1.0000	.9994
4		.9974	.9935		.9952	1.0003	.9985		1.0055	1.0128	1.0025	.9985	1.0007	1.0007	.9993
5		.9990	.9759		.9967	1.0025	1.0012		1.0072	1.0084	1.0038	1.0008	1.0024	1.0012	1.0011
6		.9980	.9773		.9976	1.0033	1.0013		1.0073	1.0025	1.0036	1.0034	1.0025	1.0013	1.0013
7		.9956	.9785		.9975	1.0038	1.0012		1.0073	1.0061	1.0040	1.0001	1.0025	1.0019	1.0010
8		.9992	.9786		.9973	1.0027	1.0012		1.0074	1.0002	1.0037	1.0021	1.0026	1.0026	1.0014
9		.9972	.9790		.9975	1.0027	1.0006		1.0077	1.0041	1.0035	1.0015	1.0029	1.0017	1.0011
10		.9974	.9780		.9975	1.0025	1.0016		1.0067	1.0031	1.0038	1.0010	1.0031	1.0019	1.0016
11		.9975	.9781		.9975	1.0024	1.0007		1.0068	1.0068	1.0038	1.0007	1.0020	1.0020	1.0014
12		.9984	.9779		.9980	1.0027	1.0010		1.0077	1.0053	1.0035	1.0020	1.0029	1.0017	.9989
13		.9991	.9774		.9973	1.0028	1.0010		1.0072	1.0096	1.0034	1.0009	1.0024	1.0006	1.0009
14		.9987	.9782		.9969	1.0014	1.0007		1.0068	1.0091	1.0034	1.0013	1.0020	1.0014	1.0009
15		.9978	.9774		.9980	1.0033	1.0005		1.0071	1.0083	1.0033	1.0010	1.0023	1.0011	1.0013
16		.9994	.9779		.9973	1.0026	1.0002		1.0076	1.0076	1.0032	1.0013	1.0028	1.0004	1.0015
17		1.0037	.9751		.9977	1.0018	1.0002		1.0071	1.0059	1.0031	1.0026	1.0023	1.0012	1.0010
18		.9999	.9714		1.0316	1.0010	.9998		1.0045	.9974	1.0017	.9996	1.0010	.9986	.9991
19		1.0010	.9748		.9978	1.0029	1.0006		1.0080	1.0092	1.0024	1.0016	1.0021	1.0009	1.0006
20		.9989	.9775		.9973	1.0029	1.0014		1.0082	1.0082	1.0029	1.0009	1.0023	1.0011	1.0010
21		.9993	.9779		.9975	1.0029	.9999		1.0086	1.0074	1.0026	1.0022	1.0015	1.0015	1.0006
MEAN		.9981	.9789		.9988	1.0023	1.0004		1.0069	1.0071	1.0031	1.0009	1.0022	1.0011	1.0006
S.D.		.0023	.0060		.0076	.0010	.0010		.0011	.0041	.0008	.0012	.0009	.0009	.0009

20	23	24	MEAN	S.D.
830.0	828.3	827.5	830.08	4.379
831.0	829.8	829.0	829.77	6.609
832.0	830.8	830.0	831.97	3.058
832.0	831.1	830.0	832.39	3.780
833.0	831.8	831.0	832.01	6.076
834.0	832.9	832.0	832.88	5.606
835.0	834.1	833.0	833.90	5.565
836.0	835.2	834.0	834.83	5.298
836.0	835.8	835.5	835.58	5.319
838.0	836.7	836.0	836.39	5.456
838.0	837.6	836.5	837.31	5.555
839.0	838.8	838.0	838.56	5.586
840.0	839.7	838.0	839.96	5.916
841.0	840.2	839.0	840.31	5.690
841.0	841.0	840.0	841.05	5.829
842.0	841.6	840.0	841.64	5.711
843.0	842.7	842.0	843.02	6.188
844.0	843.7	843.0	845.17	9.754
844.0	844.3	843.0	844.27	6.432
844.0	844.9	844.0	845.05	5.898
845.0	845.4	845.0	845.71	5.775

.9999	.9979	.9969
1.0015	1.0000	.9991
1.0000	.9986	.9976
.9995	.9985	.9971
1.0012	.9997	.9988
1.0013	1.0000	.9989
1.0013	1.0002	.9989
1.0014	1.0004	.9990
1.0005	1.0003	.9999
1.0019	1.0004	.9995
1.0008	1.0004	.9990
1.0005	1.0003	.9993
1.0000	.9997	.9977
1.0008	.9999	.9984
.9999	.9999	.9988
1.0004	1.0000	.9981
1.0000	.9996	.9988
.9986	.9983	.9974
.9997	1.0000	.9985
.9988	.9998	.9988
.9992	.9996	.9992
1.0004	.9997	.9986
.0009	.0007	.0008

TABLE 3-19

THIRD INTERCOMPARISON - NOVEMBER 9, 1979
 RJN 19: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	09:27:00	859.5	861.0		857.7		859.6		866.0	870.0	862.2	861.3	863.0	861.0	860.5
2	09:27:30	859.5	862.0		857.7	862.5	859.3		865.0	874.0	862.9	861.3	863.0	861.0	860.8
3	09:28:00	859.5	864.0		859.5	863.2	861.3		866.0	870.0	863.7	863.1	864.0	862.5	861.7
4	09:28:30	862.5	865.0		860.3	864.0	862.4		866.0	861.0	864.5	864.2	864.0	863.5	862.8
5	09:29:00	863.5	865.0		862.0	866.2	863.5		868.0	874.0	865.7	863.8	866.0	865.0	863.8
6	09:29:30	865.4	866.0		862.0	867.0	864.2		870.0	874.0	866.2	866.5	866.0	866.0	864.6
7	09:30:00	863.5	867.0		862.0	867.0	864.2		870.0	878.0	866.6	866.6	867.0	866.0	864.9
8	09:30:30	866.4	868.0		863.6	868.5	865.3		870.0	874.0	867.4	866.9	867.0	867.0	865.5
9	09:31:00	867.4	869.0		864.5	869.2	865.3		871.0	878.0	868.4	867.2	868.0	868.0	866.4
10	09:31:30	867.4	871.0		865.3	869.2	866.2		871.0	878.0	868.1	868.2	868.0	868.0	867.4
11	09:32:00	866.4	871.0		865.3	870.7	867.2		873.0	874.0	869.1	868.4	868.0	869.0	867.8
12	09:32:30	869.4	871.0		866.2	870.7	867.5		872.0	878.0	870.0	869.0	870.0	868.5	868.5
13	09:33:00	869.4	872.0		866.2	871.5	868.2		872.0	874.0	870.6	869.6	871.0	868.0	868.8
14	09:33:30	872.4	873.0		867.0	871.5	869.1		872.0	874.0	871.7	869.6	871.0	869.0	869.1
15	09:34:00	870.4	872.0		867.9	872.2	870.2		873.0	874.0	871.8	870.2	871.0	870.0	869.7
16	09:34:30	871.4	874.0		867.9	873.7	870.4		873.0	878.0	872.4	871.7	873.0	871.5	870.1
17	09:35:00	872.4	874.0		868.7	874.4	870.9		874.0	878.0	873.2	871.0	874.0	871.5	870.5
18	09:35:30	872.4	872.0		868.7	873.7	870.9		874.0	878.0	873.5	871.7	873.0	871.5	870.8
19	09:36:00	871.4	873.0		869.6	872.9	870.9		875.0	878.0	873.7	872.3	874.0	873.0	871.5
20	09:36:30	871.4	875.0		868.7	872.9	871.2		875.0	883.0	873.4	870.2	873.0	872.5	870.9
21	09:37:00	872.4	875.0		869.6	872.9	871.2		876.0	878.0	874.0	872.0	874.0	873.0	871.7
1		.9977	.9994		.9956		.9978		1.0052	1.0059	1.0008	.9998	1.0018	.9994	.9989
2		.9972	1.0001		.9951	1.0007	.9970		1.0036	1.0140	1.0011	.9993	1.0012	.9989	.9987
3		.9962	1.0014		.9962	1.0005	.9983		1.0037	1.0064	1.0011	1.0004	1.0014	.9997	.9988
4		.9993	1.0022		.9968	1.0011	.9992		1.0034	.9976	1.0017	1.0013	1.0011	1.0005	.9997
5		.9982	.9999		.9965	1.0013	.9982		1.0034	1.0103	1.0007	.9986	1.0011	.9999	.9986
6		.9994	1.0001		.9954	1.0012	.9980		1.0047	1.0093	1.0003	1.0006	1.0001	1.0001	.9984
7		.9967	1.0008		.9950	1.0008	.9975		1.0042	1.0135	1.0003	1.0003	1.0008	.9996	.9983
8		.9993	1.0011		.9960	1.0017	.9980		1.0034	1.0080	1.0004	.9998	1.0000	1.0000	.9982
9		.9994	1.0012		.9961	1.0015	.9970		1.0035	1.0116	1.0006	.9992	1.0001	1.0001	.9982
10		.9989	1.0031		.9965	1.0010	.9975		1.0031	1.0111	.9997	.9998	.9996	.9996	.9989
11		.9974	1.0027		.9961	1.0023	.9983		1.0050	1.0061	1.0005	.9997	.9992	1.0004	.9990
12		.9998	1.0016		.9961	1.0013	.9976		1.0028	1.0097	1.0005	.9993	1.0005	.9988	.9988
13		.9997	1.0027		.9960	1.0021	.9983		1.0027	1.0050	1.0011	1.0000	1.0016	.9981	.9990
14		1.0024	1.0030		.9962	1.0013	.9986		1.0019	1.0042	1.0016	.9991	1.0008	.9985	.9986
15		.9997	1.0015		.9968	1.0017	.9994		1.0026	1.0038	1.0013	.9994	1.0004	.9992	.9989
16		.9996	1.0026		.9956	1.0023	.9985		1.0015	1.0072	1.0008	1.0000	1.0015	.9997	.9981
17		1.0001	1.0019		.9958	1.0024	.9983		1.0019	1.0065	1.0010	.9985	1.0019	.9990	.9979
18		1.0003	.9999		.9961	1.0018	.9986		1.0022	1.0067	1.0016	.9995	1.0010	.9993	.9985
19		.9987	1.0006		.9967	1.0005	.9982		1.0029	1.0063	1.0014	.9998	1.0017	1.0006	.9989
20		.9984	1.0026		.9953	1.0002	.9982		1.0026	1.0117	1.0007	.9971	1.0003	.9997	.9979
21		.9994	1.0024		.9962	1.0000	.9981		1.0036	1.0059	1.0013	.9990	1.0013	1.0001	.9986
MEAN		.9989	1.0015		.9960	1.0013	.9981		1.0032	1.0079	1.0009	.9995	1.0008	.9996	.9986
S.D.		.0014	.0012		.0005	.0007	.0006		.0010	.0037	.0005	.0009	.0008	.0007	.0004

20	23	24	MEAN	S.D.
861.0	858.4	859.5	861.48	3.195
861.0	858.9	860.0	861.93	3.322
862.0	860.1	861.0	862.77	2.706
863.0	860.8	862.0	863.07	1.618
864.0	862.3	863.0	865.05	2.447
864.0	863.3	864.0	865.95	2.904
865.0	863.3	864.0	866.34	3.789
866.0	864.5	865.5	867.04	2.507
866.0	864.9	865.5	867.92	3.522
866.0	865.4	866.0	868.35	3.204
867.0	866.1	867.0	868.67	2.523
869.0	866.7	867.0	869.57	2.855
869.0	866.8	867.5	869.64	2.184
870.0	867.8	868.0	870.35	2.065
871.0	868.0	869.0	870.69	1.724
871.0	868.8	869.0	871.73	2.505
873.0	869.5	870.0	872.34	2.398
872.0	869.6	870.0	872.12	2.232
872.0	870.2	870.0	872.50	2.169
873.0	870.3	871.0	872.77	3.232
872.0	870.6	871.0	872.89	2.211
.9994	.9964	.9977		
.9989	.9965	.9978		
.9991	.9969	.9979		
.9999	.9974	.9988		
.9988	.9968	.9976		
.9978	.9969	.9978		
.9985	.9965	.9973		
.9988	.9971	.9982		
.9978	.9965	.9972		
.9973	.9966	.9973		
.9981	.9970	.9981		
.9993	.9967	.9970		
.9993	.9967	.9975		
.9996	.9971	.9973		
1.0004	.9969	.9981		
.9992	.9966	.9969		
1.0008	.9967	.9973		
.9999	.9971	.9976		
.9994	.9974	.9971		
1.0003	.9972	.9980		
.9990	.9974	.9978		
.9991	.9969	.9976		
.0009	.0003	.0005		

TABLE 3-20

THIRD INTERCOMPARISON - NOVEMBER 9, 1979
 RUN 20: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	09:50:00	879.4	881.0	884.8	881.0	886.1	881.4		889.0		884.9	884.3	884.0	882.0	883.1
2	09:50:30	879.4	879.3	884.3	880.1	886.8	882.1		890.0		884.7	883.8	884.0	883.0	882.8
3	09:51:00	883.4	880.0	884.4	880.5	887.6	882.5		889.0		884.9	884.0	885.0	883.0	883.4
4	09:51:30	880.4	878.0	884.3	880.5	885.3	881.7		888.0		884.6	884.3	885.0	882.0	883.1
5	09:52:00	881.4	880.0	885.3	881.0	886.8	882.3		890.0		885.1	883.9	885.0	883.0	883.3
6	09:52:30	882.4	880.0	884.4	881.0	886.1	881.9		887.0	883.0	884.7	884.7	885.0	883.0	883.2
7	09:53:00	881.4	882.0	885.7	881.0	885.3	882.1		890.0	895.0	885.0	884.2	885.0	883.0	883.4
8	09:53:30	880.4	884.0	886.2	881.8	885.3	882.7		890.0	885.0	885.1	884.4	885.0	885.0	883.5
9	09:54:00	882.4	883.0	885.7	881.8	885.3	882.4		889.0	896.0	885.1	884.9	885.0	884.0	883.9
10	09:54:30	882.4	881.0	885.7	881.8	885.3	883.0		891.0	883.0	885.8	884.3	886.0	884.0	884.3
11	09:55:00	884.4	880.0	886.6	882.2	885.3	883.6		890.0	888.0	885.7	884.6	886.0	884.0	884.3
12	09:55:30	882.4	881.0	886.2	882.2	885.3	883.2		889.0	888.0	885.7	885.2	886.0	883.5	884.3
13	09:56:00	884.4	881.0	887.5	883.5	886.1	884.4		890.0	892.0	886.6	885.3	887.0	885.0	885.1
14	09:56:30	885.3	880.0	887.5	883.5	886.1	885.2		891.0	896.0	886.9	885.7	887.0	886.0	885.5
15	09:57:00	885.3	882.0	888.3	884.3	886.1	885.1		893.0	883.0	887.5	886.8	888.0	886.0	885.7
16	09:57:30	884.4	883.0	888.8	884.3	886.8	885.6		893.0	888.0	887.7	887.6	888.0	887.0	886.4
17	09:58:00	889.3	883.0	889.2	885.2	886.8	886.2		893.0	896.0	888.3	888.0	888.0	887.0	886.6
18	09:58:30	887.3	883.0	890.9	886.0	888.3	887.3		893.0	896.0	888.2	888.6	889.0	888.0	887.3
19	09:59:00	886.3	884.0	890.9	886.9	889.1	888.3		894.0	905.0	890.6	890.1	891.0	889.0	888.6
20	09:59:30	889.3	885.0	891.8	887.7	889.8	888.5		896.0	901.0	891.1	889.8	891.0	890.0	889.3
21	10:00:00	890.3	884.0	890.9	887.7	889.8	889.4		895.0	896.0	891.7	891.3	892.0	890.0	890.0
1		.9958	.9976	1.0019	.9976	1.0034	.9980		1.0066		1.0020	1.0013	1.0010	.9987	1.0000
2		.9959	.9954	1.0020	.9967	1.0042	.9989		1.0079		1.0019	1.0008	1.0011	.9999	.9997
3		.9998	.9959	1.0009	.9965	1.0045	.9988		1.0061		1.0015	1.0005	1.0016	.9993	.9998
4		.9973	.9945	1.0022	.9974	1.0028	.9987		1.0059		1.0020	1.0017	1.0025	.9991	1.0003
5		.9976	.9960	1.0020	.9972	1.0037	.9986		1.0074		1.0018	1.0005	1.0017	.9994	.9998
6		.9991	.9963	1.0013	.9975	1.0032	.9985		1.0043	.9997	1.0017	1.0017	1.0020	.9997	1.0000
7		.9966	.9973	1.0014	.9961	1.0010	.9974		1.0063	1.0131	1.0007	.9998	1.0007	.9984	.9988
8		.9956	.9997	1.0022	.9972	1.0012	.9982		1.0065	1.0042	1.0009	1.0002	1.0008	1.0008	.9991
9		.9974	.9981	1.0011	.9967	1.0007	.9974		1.0049	1.0128	1.0005	1.0002	1.0003	.9992	.9991
10		.9981	.9965	1.0018	.9974	1.0014	.9988		1.0078	.9988	1.0019	1.0002	1.0022	.9999	1.0002
11		.9997	.9948	1.0022	.9973	1.0008	.9988		1.0061	1.0038	1.0012	1.0000	1.0016	.9993	.9996
12		.9978	.9962	1.0021	.9976	1.0011	.9987		1.0053	1.0041	1.0015	1.0010	1.0019	.9990	.9999
13		.9986	.9948	1.0021	.9976	1.0005	.9986		1.0049	1.0072	1.0011	.9996	1.0016	.9993	.9994
14		.9991	.9931	1.0015	.9970	1.0000	.9989		1.0055	1.0111	1.0019	.9995	1.0010	.9998	.9993
15		.9992	.9955	1.0026	.9981	1.0001	.9990		1.0079	.9966	1.0017	1.0009	1.0023	1.0000	.9997
16		.9975	.9950	1.0025	.9974	1.0002	.9989		1.0072	1.0016	1.0013	1.0011	1.0016	1.0005	.9998
17		1.0018	.9947	1.0017	.9972	.9990	.9984		1.0060	1.0094	1.0007	1.0004	1.0004	.9993	.9988
18		1.0003	.9954	.9818	.9988	1.0014	1.0003		1.0067	1.0101	1.0024	1.0017	1.0022	1.0011	1.0003
19		.9961	.9935	1.0013	.9968	.9992	.9983		1.0047	1.0171	1.0009	1.0004	1.0014	.9991	.9987
20		.9989	.9941	1.0017	.9971	.9995	.9980		1.0064	1.0121	1.0009	.9995	1.0008	.9997	.9989
21		1.0001	.9930	1.0008	.9972	.9995	.9991		1.0054	1.0065	1.0017	1.0012	1.0020	.9998	.9998
	MEAN	.9982	.9956	1.0008	.9973	1.0013	.9986		1.0062	1.0068	1.0014	1.0006	1.0014	.9996	.9996
	S.D.	.0017	.0017	.0044	.0006	.0017	.0006		.0011	.0058	.0005	.0007	.0006	.0007	.0005

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20	23	24	MEAN	S.D.
883.0	881.1	882.0	883.14	2.449
882.0	881.3	882.0	883.05	2.857
883.0	881.3	882.0	883.60	2.421
882.0	881.2	881.5	882.83	2.515
882.0	881.4	882.0	883.50	2.604
882.0	881.3	882.0	883.23	1.932
883.0	881.6	882.0	884.42	3.824
883.0	881.8	882.0	884.26	2.455
883.0	881.6	882.0	884.69	3.565
883.0	882.2	882.5	884.08	2.391
884.0	882.3	883.0	884.62	2.380
883.0	882.2	882.5	884.36	2.252
885.0	883.1	884.0	885.62	2.651
885.0	883.5	884.0	886.14	3.500
885.0	884.5	885.0	885.97	2.513
885.0	884.8	885.0	886.59	2.375
886.0	884.5	885.5	887.66	3.198
887.0	885.6	886.5	887.06	5.226
888.0	887.1	887.5	889.77	4.669
888.0	887.9	888.0	890.26	3.718
889.0	888.2	888.0	890.21	2.825

.9998	.9977	.9987
.9988	.9980	.9988
.9993	.9974	.9982
.9991	.9982	.9985
.9983	.9976	.9983
.9986	.9978	.9986
.9984	.9968	.9973
.9986	.9972	.9974
.9981	.9965	.9970
.9988	.9979	.9982
.9993	.9974	.9982
.9985	.9976	.9979
.9993	.9971	.9982
.9987	.9970	.9976
.9989	.9983	.9989
.9982	.9980	.9982
.9981	.9964	.9976
.9999	.9984	.9994
.9980	.9970	.9974
.9975	.9973	.9975
.9986	.9977	.9975
.9987	.9975	.9981
.0006	.0005	.0006

TABLE 3-21

THIRD INTERCOMPARISON - NOVEMBER 9, 1979
 RUN 21: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER-----													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	10:21:00	906.5	906.0	907.9	904.7	911.3	907.1		911.0	915.0	907.9	907.4	907.0	907.0	907.3
2	10:21:30	907.5	906.0	909.6	906.4	912.8	908.4		914.0	910.0	909.9	909.1	909.0	908.0	908.5
3	10:22:00	909.4	905.0	910.5	906.4	912.0	908.0		913.0	915.0	909.0	908.5	910.0	908.0	909.2
4	10:22:30	911.4	905.0	911.4	906.4	913.5	909.3		912.0	919.0	910.7	909.7	911.0	908.5	909.2
5	10:23:00	908.5	907.0	911.4	906.4	912.8	909.8		912.0	910.0	910.7	909.6	911.0	909.0	908.9
6	10:23:30	909.4	907.0	911.4	907.2	915.1	910.2		914.0	910.0	911.4	911.0	911.0	910.5	909.5
7	10:24:00	909.4	905.0	911.4	907.2	912.8	909.3		913.0	919.0	911.5	910.9	912.0	910.0	909.7
8	10:24:30	910.4	905.0	912.2	908.1	913.5	909.6		915.0	919.0	911.6	910.9	912.0	910.0	909.9
9	10:25:00	910.4	906.0	914.0	908.9	914.3	910.9		914.0	915.0	912.4	912.7	912.0	911.0	910.5
10	10:25:30	911.4	908.0	914.0	909.8	915.1	911.6		914.0	924.0	913.4	912.5	913.0	911.0	911.3
11	10:26:00	911.4	908.0	914.9	910.6	916.6	912.8		916.0	928.0	914.2	915.3	914.0	914.0	912.3
12	10:26:30	912.4	907.0	914.9	911.4	915.1	912.9		917.0	915.0	914.6	914.0	915.0	914.0	912.8
13	10:27:00	912.4	910.0	915.7	911.4	915.8	914.3		917.0	919.0	915.2	913.8	915.0	914.0	913.3
14	10:27:30	913.4	909.0	915.7	912.3	918.8	914.5		919.0	928.0	915.7	914.3	916.0	914.0	913.9
15	10:28:00	921.3	911.0	916.6	912.3	918.1	913.8		917.0	924.0	915.7	915.2	916.0	915.0	914.2
16	10:28:30	914.4	909.0	916.6	913.1	918.1	914.5		919.0	915.0	916.4	915.4	916.0	916.0	914.9
17	10:29:00	914.4	911.0	917.4	912.7	917.3	914.7		918.0	932.0	916.2	915.4	916.0	915.0	914.6
18	10:29:30	914.4	912.0	917.4	913.1	918.1	915.1		918.0	932.0	916.9	916.3	917.0	916.0	915.3
19	10:30:00	916.4	918.0	919.2	914.8	918.1	916.4		920.0	932.0	917.5	918.3	918.0	917.0	916.4
20	10:30:30	915.4	916.0	918.3	914.8	917.3	915.3		920.0	928.0	917.3	916.2	918.0	917.0	915.9
21	10:31:00	916.4	915.0	919.2	914.8	918.1	916.6		920.0	937.0	917.6	918.1	918.0	918.0	916.5
1		.9985	.9979	1.0000	.9965	1.0038	.9991		1.0034	1.0078	1.0000	.9995	.9990	.9990	.9994
2		.9984	.9968	1.0007	.9972	1.0042	.9994		1.0056	1.0012	1.0011	1.0002	1.0001	.9990	.9995
3		1.0001	.9952	1.0013	.9968	1.0029	.9985		1.0040	1.0062	.9996	.9991	1.0007	.9985	.9999
4		1.0012	.9942	1.0012	.9957	1.0035	.9989		1.0019	1.0096	1.0004	.9993	1.0008	.9980	.9988
5		.9987	.9971	1.0019	.9964	1.0034	1.0001		1.0025	1.0004	1.0011	.9999	1.0014	.9993	.9991
6		.9989	.9962	1.0011	.9964	1.0051	.9997		1.0039	.9995	1.0011	1.0006	1.0006	1.0001	.9990
7		.9986	.9938	1.0008	.9962	1.0024	.9985		1.0026	1.0092	1.0009	1.0003	1.0015	.9993	.9990
8		.9993	.9934	1.0013	.9968	1.0027	.9984		1.0043	1.0087	1.0006	.9998	1.0010	.9988	.9987
9		.9988	.9940	1.0028	.9972	1.0031	.9994		1.0028	1.0039	1.0010	1.0013	1.0006	.9995	.9989
10		.9985	.9948	1.0013	.9967	1.0025	.9987		1.0013	1.0123	1.0007	.9997	1.0002	.9981	.9984
11		.9970	.9933	1.0008	.9961	1.0027	.9985		1.0020	1.0152	1.0001	1.0013	.9998	.9998	.9980
12		.9989	.9930	1.0016	.9978	1.0018	.9994		1.0039	1.0017	1.0013	1.0006	1.0017	1.0006	.9993
13		.9980	.9954	1.0016	.9969	1.0017	1.0001		1.0030	1.0052	1.0011	.9995	1.0009	.9998	.9990
14		.9978	.9930	1.0004	.9966	1.0037	.9990		1.0040	1.0138	1.0004	.9988	1.0007	.9985	.9984
15		1.0061	.9949	1.0010	.9963	1.0026	.9979		1.0014	1.0091	1.0000	.9994	1.0003	.9992	.9983
16		.9992	.9933	1.0016	.9977	1.0032	.9993		1.0042	.9998	1.0013	1.0002	1.0009	1.0009	.9997
17		.9980	.9943	1.0013	.9962	1.0012	.9984		1.0020	1.0172	1.0000	.9991	.9998	.9987	.9983
18		.9975	.9949	1.0008	.9961	1.0015	.9982		1.0014	1.0167	1.0002	.9996	1.0003	.9992	.9985
19		.9981	.9998	1.0011	.9964	.9999	.9981		1.0020	1.0151	.9993	1.0002	.9998	.9987	.9981
20		.9980	.9986	1.0011	.9973	1.0001	.9979		1.0030	1.0117	1.0001	.9989	1.0008	.9997	.9985
21		.9979	.9964	1.0010	.9962	.9998	.9981		1.0018	1.0203	.9992	.9998	.9997	.9997	.9980
	MEAN	.9989	.9952	1.0012	.9966	1.0025	.9988		1.0029	1.0088	1.0005	.9999	1.0005	.9993	.9988
	S.D.	.0019	.0019	.0006	.0006	.0014	.0007		.0012	.0063	.0006	.0007	.0007	.0008	.0005

20	23	24	MEAN	S.D.
909.0	906.0	905.0	907.88	2.627
910.0	906.9	907.0	908.94	2.169
910.0	907.3	908.0	909.33	2.485
912.0	907.8	908.0	910.31	3.219
912.0	907.8	908.0	909.68	1.882
912.0	908.4	909.0	910.44	2.161
912.0	908.1	909.0	910.64	3.083
912.0	908.6	909.0	911.05	3.149
913.0	909.2	909.5	911.49	2.401
914.0	910.3	911.0	912.77	3.521
915.0	911.1	912.0	914.14	4.329
915.0	911.5	912.0	913.41	2.311
916.0	912.0	912.5	914.21	2.281
915.0	912.9	913.5	915.37	4.120
915.0	912.7	913.5	915.71	3.298
917.0	913.4	914.0	915.17	2.303
917.0	913.5	914.0	916.20	4.603
917.0	913.7	915.0	916.71	4.441
918.0	914.8	915.5	918.15	3.974
917.0	914.5	915.0	917.25	3.217
917.0	915.2	915.5	918.31	5.204

1.0012	.9979	.9968
1.0012	.9978	.9979
1.0007	.9978	.9985
1.0019	.9972	.9975
1.0025	.9979	.9982
1.0017	.9978	.9984
1.0015	.9972	.9982
1.0010	.9973	.9977
1.0017	.9975	.9978
1.0013	.9973	.9981
1.0009	.9967	.9977
1.0017	.9979	.9985
1.0020	.9976	.9981
.9996	.9973	.9980
.9992	.9967	.9976
1.0020	.9981	.9987
1.0009	.9971	.9976
1.0003	.9967	.9981
.9998	.9964	.9971
.9997	.9970	.9975
.9986	.9966	.9969
1.0009	.9973	.9979
.0010	.0005	.0005

TABLE 3-22

THIRD INTERCOMPARISON - NOVEMBER 9, 1979
 RUN 22: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	10:43:00	919.4	919.0	921.8	917.5	921.7	919.4		926.0	930.0	922.5	920.8	922.0	920.5	920.8
2	10:43:30	919.4	922.0	922.7	919.2	922.5	920.5		926.0	930.0	923.7	923.6	923.0	923.0	921.8
3	10:44:00	920.3	919.0	924.4	920.1	923.2	923.2		928.0	930.0	925.3	923.4	924.0	924.0	923.2
4	10:44:30	922.3	921.0	925.3	920.9	924.7	922.9		929.0	925.0	925.6	924.7	925.0	924.0	924.4
5	10:45:00	921.3	922.0	925.3	921.8	924.7	923.5		930.0	930.0	925.8	925.6	925.0	923.5	924.3
6	10:45:30	924.3	919.0	926.2	921.8	925.5	923.6		929.0	930.0	926.1	925.8	925.0	923.0	924.8
7	10:46:00	922.3	919.0	926.2	921.8	924.7	923.9		929.0	934.0	926.6	924.5	926.0	924.0	924.6
8	10:46:30	923.3	919.0	927.1	922.6	926.2	923.7		929.0	938.0	926.4	925.7	926.0	924.0	925.2
9	10:47:00	923.3	923.0	927.1	923.5	927.7	924.7		930.0	938.0	927.1	927.0	926.0	925.0	925.8
10	10:47:30	923.3	925.0	927.9	923.5	926.2	924.9		930.0	934.0	927.4	927.0	927.0	925.0	925.6
11	10:48:00	924.3	923.0	927.9	923.5	926.2	925.1		931.0	938.0	927.5	927.3	927.0	925.5	926.5
12	10:48:30	925.3	927.0	927.9	924.3	927.0	924.8		931.0	934.0	927.8	927.1	927.0	927.0	926.6
13	10:49:00	931.2	923.0	928.8	925.2	928.5	926.4		932.0	934.0	929.0	929.4	928.0	927.0	927.7
14	10:49:30	926.3	922.0	929.7	925.6	929.3	927.6		931.0	934.0	929.6	928.1	929.0	927.0	928.0
15	10:50:00	927.3	925.0	929.7	926.0	930.0	927.6		933.0	943.0	930.0	929.4	929.0	928.5	928.4
16	10:50:30	929.2	925.0	930.5	926.9	931.5	927.8		934.0	943.0	930.9	929.8	930.0	929.0	929.9
17	10:51:00	928.3	925.0	931.4	927.7	931.5	929.3		934.0	943.0	931.5	931.2	931.0	930.0	930.3
18	10:51:30	930.2	924.0	932.3	928.6	933.0	930.3		936.0	943.0	932.6	931.9	932.0	930.0	931.1
19	10:52:00	930.2	926.0	932.3	929.0	934.5	930.5		935.0	938.0	933.5	932.2	933.0	930.0	931.4
20	10:52:30	930.2	926.0	932.3	928.6	933.0	930.5		936.0	938.0	933.1	932.1	932.0	932.0	931.5
21	10:53:00	930.2	929.0	932.3	928.6	932.3	930.4		935.0	934.0	932.8	931.2	932.0	931.0	931.1
1		.9980	.9975	1.0006	.9959	1.0005	.9980		1.0051	1.0095	1.0013	.9995	1.0008	.9992	.9995
2		.9967	.9995	1.0003	.9965	1.0001	.9979		1.0039	1.0082	1.0014	1.0013	1.0006	1.0006	.9993
3		.9967	.9953	1.0011	.9965	.9998	.9998		1.0050	1.0072	1.0021	1.0000	1.0007	1.0007	.9998
4		.9982	.9968	1.0015	.9967	1.0008	.9989		1.0055	1.0011	1.0018	1.0008	1.0011	1.0001	1.0005
5		.9966	.9973	1.0009	.9971	1.0002	.9989		1.0060	1.0060	1.0014	1.0012	1.0006	.9989	.9998
6		.9996	.9938	1.0016	.9969	1.0009	.9988		1.0047	1.0057	1.0015	1.0012	1.0003	.9982	1.0001
7		.9974	.9938	1.0016	.9968	1.0000	.9991		1.0046	1.0100	1.0020	.9997	1.0014	.9992	.9999
8		.9976	.9930	1.0017	.9969	1.0008	.9981		1.0038	1.0135	1.0010	1.0002	1.0006	.9984	.9997
9		.9967	.9964	1.0008	.9970	1.0015	.9982		1.0040	1.0126	1.0008	1.0007	.9996	.9986	.9994
10		.9968	.9986	1.0018	.9970	.9999	.9985		1.0040	1.0084	1.0012	1.0008	1.0008	.9986	.9993
11		.9974	.9960	1.0013	.9966	.9995	.9983		1.0046	1.0122	1.0009	1.0007	1.0003	.9987	.9998
12		.9982	1.0000	1.0010	.9971	1.0000	.9976		1.0043	1.0075	1.0008	1.0001	1.0000	1.0000	.9996
13		1.0034	.9946	1.0009	.9970	1.0005	.9983		1.0043	1.0065	1.0011	1.0015	1.0000	.9989	.9997
14		.9982	.9936	1.0019	.9974	1.0014	.9996		1.0033	1.0065	1.0018	1.0001	1.0011	.9990	1.0000
15		.9979	.9954	1.0004	.9965	1.0008	.9982		1.0040	1.0148	1.0008	1.0001	.9997	.9992	.9990
16		.9991	.9945	1.0005	.9966	1.0015	.9975		1.0042	1.0139	1.0009	.9997	.9999	.9988	.9998
17		.9974	.9939	1.0008	.9968	1.0009	.9985		1.0036	1.0132	1.0009	1.0006	1.0003	.9993	.9996
18		.9986	.9919	1.0008	.9969	1.0016	.9987		1.0048	1.0123	1.0012	1.0004	1.0005	.9984	.9996
19		.9985	.9940	1.0008	.9972	1.0031	.9988		1.0037	1.0069	1.0021	1.0007	1.0015	.9983	.9998
20		.9985	.9940	1.0008	.9968	1.0015	.9989		1.0048	1.0059	1.0017	1.0006	1.0005	1.0005	.9999
21		.9989	.9976	1.0012	.9972	1.0012	.9991		1.0041	1.0030	1.0017	1.0000	1.0009	.9998	.9999
MEAN		.9981	.9956	1.0011	.9968	1.0008	.9986		1.0044	1.0039	1.0014	1.0005	1.0005	.9992	.9997
S.D.		.0015	.0022	.0005	.0003	.0008	.0006		.0007	.0037	.0004	.0006	.0005	.0008	.0003

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20	23	24	MEAN	S.D.
921.0	917.9	920.0	921.27	3.072
921.0	919.3	921.0	922.42	2.727
923.0	920.6	922.0	923.36	2.828
924.0	921.2	923.0	923.94	2.064
924.0	921.8	923.0	924.47	2.581
925.0	922.0	924.0	924.69	2.655
924.0	922.1	923.0	924.73	3.371
925.0	922.5	924.0	925.48	4.043
925.0	923.0	925.0	926.32	3.660
925.0	923.3	925.0	926.26	2.742
926.0	923.3	925.0	926.69	3.630
926.0	923.9	925.5	927.01	2.510
927.0	924.8	926.0	928.00	2.803
928.0	925.3	927.0	927.97	2.674
929.0	925.7	927.0	929.29	4.153
929.0	926.8	928.0	930.08	4.038
930.0	927.6	929.0	930.67	3.891
931.0	928.2	930.0	931.51	4.005
931.0	928.6	930.0	931.57	2.865
931.0	928.6	930.0	931.56	2.840
931.0	928.4	930.0	931.21	1.835

.9997	.9963	.9986
.9985	.9966	.9985
.9996	.9970	.9985
1.0001	.9970	.9990
.9995	.9971	.9984
1.0003	.9971	.9992
.9992	.9972	.9981
.9995	.9968	.9984
.9986	.9964	.9986
.9986	.9968	.9986
.9993	.9963	.9982
.9989	.9966	.9984
.9989	.9966	.9978
1.0000	.9971	.9990
.9997	.9961	.9975
.9988	.9965	.9978
.9993	.9967	.9982
.9994	.9964	.9984
.9994	.9963	.9983
.9994	.9968	.9983
.9998	.9970	.9987
.9994	.9967	.9984
.0005	.0003	.0004

TABLE 3-23

THIRD INTERCOMPARISON - NOVEMBER 9, 1979
 RUN 23: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	11:05:00	926.1	926.0	930.0	926.3	930.3	927.7		935.0	942.0	932.0	930.5	930.0	928.0	929.2
2	11:05:30	929.1	928.0	930.8	927.2	931.0	928.8		935.0	937.0	932.6	929.9	931.5	928.0	929.8
3	11:06:00	929.1	931.0	932.6	928.0	931.0	930.2		936.0	942.0	933.8	931.4	932.0	930.0	930.9
4	11:06:30	930.0	933.0	934.3	929.7	931.8	931.3		938.0	946.0	934.6	932.7	933.0	932.5	932.0
5	11:07:00	932.0	935.0	933.4	929.7	934.0	931.5		937.0	946.0	935.2	932.8	934.0	933.0	932.8
6	11:07:30	931.0	933.0	933.4	930.6	933.3	932.3		938.0	942.0	936.0	933.1	935.0	933.0	933.9
7	11:08:00	934.0	936.0	935.2	932.3	934.0	933.8		938.0	950.0	936.8	935.3	936.0	935.0	934.6
8	11:08:30	934.0	934.0	936.1	932.3	934.8	933.6		940.0	946.0	937.2	935.6	936.0	934.0	935.0
9	11:09:00	934.0	932.0	936.1	932.3	935.5	933.9		940.0	950.0	937.2	935.1	936.0	933.0	934.3
10	11:09:30	934.0	932.0	936.1	933.1	936.3	934.0		939.0	937.0	938.1	935.9	937.0	933.0	935.3
11	11:10:00	935.0	935.0	937.8	933.1	936.3	934.5		939.0	942.0	938.4	937.0	937.0	935.0	935.4
12	11:10:30	936.0	934.0	937.8	934.0	936.3	935.3		940.0	946.0	938.6	937.1	937.0	935.0	935.7
13	11:11:00	935.0	932.0	936.1	932.3	937.0	934.7		940.0	950.0	938.1	935.2	937.0	934.0	934.9
14	11:11:30	933.0	933.0	936.1	932.3	935.5	933.9		939.0	942.0	937.1	934.5	936.0	934.0	934.2
15	11:12:00	935.0	937.0	936.1	932.3	935.5	934.0		940.0	950.0	937.1	935.7	936.0	935.0	934.6
16	11:12:30	936.0	932.0	936.1	932.3	935.5	934.0		940.0	950.0	937.7	935.9	936.0	935.0	934.5
17	11:13:00	935.0	936.0	936.9	933.1	937.0	935.0		941.0	946.0	938.5	936.2	937.5	936.0	935.6
18	11:13:30	936.0	935.0	936.9	934.0	937.0	935.3		942.0	942.0	938.9	937.1	937.5	936.0	935.7
19	11:14:00	935.0	935.0	936.1	932.7	936.3	934.2		940.0	946.0	937.7	934.9	936.0	934.0	934.6
20	11:14:30	933.0	933.0	935.2	931.4	934.8	933.2		939.0	950.0	936.8	934.4	935.5	933.0	933.7
21	11:15:00	929.1	932.0	933.4	930.6	934.0	932.4		938.0	946.0	935.7	933.4	935.0		932.7
1		.9960	.9959	1.0002	.9962	1.0005	.9977		1.0055	1.0131	1.0023	1.0007	1.0002	.9980	.9993
2		.9987	.9975	1.0005	.9967	1.0008	.9984		1.0051	1.0072	1.0025	.9996	1.0013	.9975	.9995
3		.9972	.9992	1.0010	.9960	.9992	.9984		1.0046	1.0111	1.0023	.9997	1.0003	.9982	.9991
4		.9966	.9998	1.0012	.9963	.9985	.9980		1.0052	1.0137	1.0015	.9995	.9998	.9993	.9987
5		.9980	1.0012	.9995	.9956	1.0002	.9975		1.0034	1.0130	1.0015	.9989	1.0002	.9991	.9989
6		.9970	.9991	.9996	.9966	.9995	.9984		1.0045	1.0088	1.0024	.9993	1.0013	.9991	1.0001
7		.9982	1.0004	.9995	.9964	.9982	.9980		1.0025	1.0153	1.0012	.9996	1.0004	.9993	.9989
8		.9984	.9984	1.0006	.9966	.9992	.9979		1.0048	1.0112	1.0018	1.0001	1.0005	.9984	.9994
9		.9982	.9961	1.0005	.9964	.9998	.9981		1.0047	1.0153	1.0017	.9994	1.0004	.9972	.9986
10		.9987	.9966	1.0010	.9978	1.0012	.9987		1.0041	1.0019	1.0031	1.0008	1.0019	.9977	1.0001
11		.9988	.9988	1.0018	.9968	1.0002	.9983		1.0031	1.0063	1.0024	1.0009	1.0009	.9988	.9992
12		.9992	.9971	1.0011	.9971	.9995	.9985		1.0035	1.0099	1.0020	1.0004	1.0003	.9981	.9989
13		.9987	.9955	.9999	.9958	1.0009	.9984		1.0041	1.0148	1.0020	.9989	1.0009	.9977	.9986
14		.9978	.9978	1.0012	.9971	1.0005	.9988		1.0043	1.0075	1.0022	.9995	1.0011	.9989	.9991
15		.9987	1.0009	.9999	.9958	.9953	.9977		1.0041	1.0147	1.0010	.9995	.9998	.9987	.9983
16		1.0000	.9958	1.0002	.9961	.9955	.9979		1.0043	1.0150	1.0019	.9999	1.0000	.9990	.9984
17		.9982	.9992	1.0002	.9961	1.0003	.9982		1.0046	1.0099	1.0019	.9994	1.0008	.9992	.9988
18		.9992	.9981	1.0002	.9971	1.0003	.9985		1.0056	1.0056	1.0023	1.0004	1.0008	.9992	.9989
19		.9991	.9991	1.0002	.9966	1.0005	.9982		1.0044	1.0108	1.0020	.9990	1.0001	.9980	.9986
20		.9979	.9979	1.0002	.9962	.9958	.9981		1.0043	1.0161	1.0020	.9994	1.0006	.9979	.9986
21		.9949	.9980	.9995	.9965	1.0002	.9985		1.0045	1.0130	1.0020	.9995	1.0012		.9980
MEAN		.9981	.9982	1.0004	.9965	.9999	.9982		1.0043	1.0112	1.0020	.9997	1.0006	.9985	.9990
S.D.		.0012	.0017	.0006	.0005	.0008	.0003		.0008	.0038	.0005	.0006	.0006	.0007	.0005

20	23	24	MEAN	S.D.
930.0	926.4	928.0	929.84	4.039
931.0	927.0	928.0	930.29	2.774
931.0	928.2	930.0	931.70	3.394
932.0	929.2	931.0	933.19	4.022
933.0	930.0	932.0	933.84	3.733
934.0	930.1	932.0	933.79	2.951
935.0	931.4	933.0	935.65	4.167
935.0	931.7	933.0	935.52	3.428
935.0	931.9	934.0	935.64	4.353
936.0	932.1	934.0	935.18	2.096
936.0	932.6	934.0	936.13	2.386
937.0	933.1	935.0	936.74	3.049
936.0	932.7	934.0	936.19	4.250
935.0	931.6	933.0	935.01	2.656
935.0	931.9	934.0	936.20	4.142
935.0	931.8	933.5	935.96	4.297
937.0	932.9	934.0	936.73	3.183
936.0	933.6	935.0	936.75	2.436
935.0	932.4	934.0	935.87	3.266
933.0	931.1	932.5	934.97	4.476
933.0	930.3	932.0	933.84	4.024

1.0002	.9963	.9980
1.0008	.9965	.9975
.9992	.9962	.9982
.9987	.9957	.9976
.9991	.9959	.9980
1.0002	.9960	.9981
.9993	.9955	.9972
.9994	.9959	.9973
.9993	.9960	.9982
1.0009	.9967	.9987
.9999	.9962	.9977
1.0003	.9961	.9981
.9998	.9963	.9977
1.0000	.9964	.9978
.9987	.9954	.9977
.9990	.9956	.9974
1.0003	.9959	.9971
.9992	.9966	.9981
.9991	.9963	.9980
.9979	.9959	.9974
.9991	.9962	.9980
.9995	.9961	.9978
.0007	.0004	.0004

TABLE 3-24

THIRD INTERCOMPARISON - NOVEMBER 9, 1979
 RUN 24: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	11:26:00	936.2	937.0	940.6	936.6	941.1	938.4		944.0	949.0	941.7	939.6	941.0	939.0	939.8
2	11:26:30	937.1	935.0	939.7	937.4	941.1	938.5		945.0	936.0	941.8	940.2	941.0	939.0	940.1
3	11:27:00	939.1	936.0	940.6	938.3	941.9	939.3		944.0	953.0	942.2	940.3	941.5	939.0	940.3
4	11:27:30	939.1	939.0	940.6	937.8	941.9	939.1		945.0	949.0	942.3	941.4	941.5	940.0	940.4
5	11:28:00	940.1	942.0	941.4	937.8	942.7	940.0		946.0	953.0	942.5	941.9	941.5	941.0	940.7
6	11:28:30	939.1	938.0	942.3	938.3	941.1	939.5		946.0	944.0	942.5	941.6	941.5	941.0	941.1
7	11:29:00	940.1	940.0	942.3	938.7	941.9	940.2		946.0	953.0	942.6	942.0	941.5	940.0	941.2
8	11:29:30	940.1	937.0	943.2	938.3	942.7	940.0		944.0	944.0	942.3	942.2	942.0	940.0	941.6
9	11:30:00	939.1	939.0	942.3	938.3	942.7	940.0		944.0	949.0	942.3	941.8	942.0	940.0	941.4
10	11:30:30	940.1	939.0	942.3	938.3	942.7	940.2		945.0	953.0	943.1	941.6	942.0	941.0	941.4
11	11:31:00	941.1	934.0	942.3	938.3	942.7	940.3		945.0	953.0	943.0	940.7	942.0	940.0	941.1
12	11:31:30	941.1	933.0	941.4	939.1	941.1	939.2		943.0	944.0	943.0	941.8	942.0	940.0	941.2
13	11:32:00	940.1	934.0	942.3	939.1	941.9	940.2		944.0	953.0	943.2	941.3	942.5	940.0	941.0
14	11:32:30	942.1	938.0	942.3	939.1	941.9	940.3		945.0	953.0	943.4	940.9	943.0	940.0	941.4
15	11:33:00	941.1	940.0	942.3	939.1	941.9	940.0		945.0	954.0	942.9	941.5	942.5	942.0	941.3
16	11:33:30	941.1	939.0	942.3	939.1	941.1	939.8		946.0	953.0	942.5	941.5	942.0	942.0	941.2
17	11:34:00	940.1	935.0	940.6	938.3	940.4	939.2		946.0	953.0	941.9	941.2	941.0	940.0	940.5
18	11:34:30	940.1	937.0	940.6	937.4	940.4	939.7		944.0	949.0	941.4	940.7	941.0	940.0	940.0
19	11:35:00	935.2	937.0	940.6	937.4	941.1	939.7		943.0	953.0	941.5	940.1	941.0	940.0	939.3
20	11:35:30	938.1	937.0	940.6	937.0	940.4	938.8		945.0	953.0	941.0	939.2	940.0	940.0	939.7
21	11:36:00	940.1	939.0	940.6	937.4	940.4	939.7		944.0	953.0	941.4	939.7	940.5	939.5	939.5
1		.9960	.9968	1.0006	.9964	1.0012	.9983		1.0043	1.0096	1.0018	.9996	1.0011	.9989	.9998
2		.9977	.9954	1.0004	.9980	1.0019	.9992		1.0061	.9965	1.0027	1.0010	1.0018	.9997	1.0009
3		.9982	.9949	.9998	.9974	1.0012	.9984		1.0034	1.0130	1.0015	.9995	1.0008	.9981	.9995
4		.9981	.9980	.9997	.9967	1.0011	.9981		1.0044	1.0086	1.0015	1.0005	1.0007	.9991	.9995
5		.9982	1.0002	.9995	.9957	1.0009	.9981		1.0044	1.0119	1.0007	1.0001	.9997	.9991	.9988
6		.9981	.9969	1.0015	.9973	1.0002	.9985		1.0054	1.0033	1.0017	1.0008	1.0007	1.0001	1.0002
7		.9982	.9981	1.0006	.9968	1.0002	.9984		1.0045	1.0119	1.0009	1.0003	.9997	.9981	.9994
8		.9989	.9956	1.0022	.9970	1.0017	.9988		1.0030	1.0030	1.0012	1.0011	1.0009	.9986	1.0005
9		.9975	.9974	1.0009	.9967	1.0013	.9985		1.0027	1.0080	1.0009	1.0004	1.0006	.9985	1.0000
10		.9981	.9970	1.0005	.9962	1.0009	.9983		1.0034	1.0118	1.0013	.9997	1.0002	.9991	.9995
11		.9997	.9921	1.0010	.9967	1.0014	.9988		1.0038	1.0123	1.0017	.9993	1.0006	.9985	.9997
12		1.0005	.9919	1.0008	.9984	1.0005	.9985		1.0025	1.0036	1.0025	1.0013	1.0015	.9994	1.0006
13		.9986	.9921	1.0009	.9975	1.0005	.9987		1.0027	1.0123	1.0019	.9999	1.0011	.9985	.9996
14		1.0002	.9958	1.0004	.9970	1.0000	.9983		1.0033	1.0118	1.0016	.9989	1.0012	.9980	.9995
15		.9990	.9975	1.0003	.9969	.9999	.9979		1.0032	1.0127	1.0009	.9994	1.0005	1.0000	.9992
16		.9992	.9970	1.0005	.9971	.9992	.9978		1.0044	1.0118	1.0007	.9996	1.0002	1.0002	.9993
17		.9992	.9938	.9998	.9973	.9996	.9983		1.0055	1.0130	1.0012	1.0004	1.0002	.9991	.9997
18		.9997	.9964	1.0002	.9968	1.0000	.9993		1.0039	1.0092	1.0011	1.0003	1.0007	.9996	.9996
19		.9947	.9966	1.0005	.9970	1.0010	.9995		1.0030	1.0136	1.0014	.9999	1.0009	.9998	.9991
20		.9978	.9966	1.0004	.9966	1.0002	.9985		1.0051	1.0136	1.0008	.9989	.9998	.9998	.9995
21		.9995	.9983	1.0000	.9966	.9998	.9991		1.0037	1.0132	1.0009	.9991	.9999	.9989	.9989
	MEAN	.9984	.9961	1.0005	.9970	1.0006	.9985		1.0039	1.0098	1.0014	1.0000	1.0006	.9991	.9996
	S.D.	.0013	.0022	.0006	.0006	.0007	.0004		.0010	.0045	.0005	.0007	.0006	.0007	.0005

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20	23	24	MEAN	S.D.
939.0	937.9	939.0	939.99	3.137
940.0	937.6	939.0	939.28	2.429
940.0	937.9	939.0	940.77	3.770
940.0	938.1	939.0	940.89	2.818
940.0	938.6	940.0	941.82	3.515
940.0	938.5	939.5	940.87	2.160
940.0	939.0	939.5	941.75	3.487
942.0	938.9	940.0	941.14	2.040
942.0	939.1	940.0	941.44	2.589
941.0	938.8	940.0	941.84	3.442
940.0	938.9	940.0	941.40	3.927
941.0	938.8	940.0	940.61	2.504
941.0	939.1	940.0	941.42	3.826
941.0	939.2	940.0	941.91	3.451
940.0	938.8	940.0	942.02	3.562
940.0	939.0	940.0	941.85	3.452
938.0	938.7	939.0	940.81	3.972
938.0	937.7	939.0	940.37	2.885
938.0	937.4	938.5	940.17	3.956
938.0	937.5	938.0	940.21	3.940
939.0	937.2	938.0	940.56	3.687

.9989	.9978	.9989
1.0008	.9982	.9997
.9992	.9969	.9981
.9991	.9970	.9980
.9981	.9966	.9981
.9991	.9975	.9985
.9981	.9971	.9976
1.0009	.9976	.9988
1.0006	.9975	.9985
.9991	.9968	.9980
.9985	.9973	.9985
1.0004	.9981	.9994
.9996	.9975	.9985
.9990	.9971	.9980
.9979	.9966	.9979
.9980	.9970	.9980
.9970	.9978	.9981
.9975	.9972	.9985
.9977	.9970	.9982
.9977	.9971	.9977
.9983	.9964	.9973
.9988	.9972	.9983
.0011	.0005	.0006

TABLE 3-25

THIRD INTERCOMPARISON - NOVEMBER 9, 1979
 RUN 25: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	11:57:00	944.3		946.1	940.3	947.8	943.4					944.5		944.0	944.7
2	11:57:30	943.3		946.1	941.1	948.5	943.2					943.6		943.5	944.8
3	11:58:00	943.3		946.1	940.3	947.0	943.1					943.7		943.0	944.3
4	11:58:30	944.3		946.1	939.9	945.5	943.2					943.5		943.0	943.6
5	11:59:00	942.3		945.3	939.4	944.0	942.1					943.2		943.0	943.2
6	11:59:30	941.3		944.4	939.4	944.0	941.7					942.3		942.0	942.6
7	12:00:00	941.3		945.3	940.3	944.0	941.9					942.2		942.0	943.1
8	12:00:30	942.3		945.3	940.3	944.7	942.1					941.7		943.0	942.8
9	12:01:00	943.3		945.3	940.3	945.5	942.1					942.9		943.0	943.1
10	12:01:30	943.3		947.0	941.1	946.3	943.4					943.6		944.0	943.9
11	12:02:00	943.3		946.1	941.5	944.7	943.4					943.7		945.0	944.5
12	12:02:30	944.3		947.0	942.0	946.3	943.8					943.7		943.5	944.3
13	12:03:00	944.3		947.0	942.8	947.8	944.0					944.1		946.0	945.0
14	12:03:30	945.3		947.9	942.8	948.5	944.9					945.2		946.0	945.6
15	12:04:00	944.3		947.9	943.7	948.5	945.6					945.9		946.0	946.1
16	12:04:30	944.3		947.9	942.8	946.3	945.0					946.0		947.0	945.2
17	12:05:00	944.3		947.0	942.8	946.3	944.7					945.8		946.5	945.9
18	12:05:30	943.3		947.0	942.4	944.7	944.2					947.0		945.5	945.0
19	12:06:00	944.3		946.1	942.0	944.0	944.3					944.1		945.0	944.6
20	12:06:30	944.3		947.0	942.0	943.0	943.2					945.5		945.5	944.5
21	12:07:00	944.3		945.3	942.0	943.2	943.3					945.0		946.0	944.0
1		1.0002		1.0021	.9960	1.0039	.9993					1.0005		.9999	1.0007
2		.9993		1.0023	.9970	1.0048	.9992					.9996		.9995	1.0009
3		.9996		1.0026	.9964	1.0035	.9994					1.0000		.9993	1.0007
4		1.0010		1.0029	.9963	1.0023	.9998					1.0002		.9996	1.0003
5		.9996		1.0028	.9966	1.0014	.9994					1.0006		1.0004	1.0006
6		.9992		1.0025	.9971	1.0020	.9996					1.0002		.9999	1.0005
7		.9987		1.0030	.9977	1.0016	.9994					.9997		.9995	1.0006
8		.9997		1.0029	.9976	1.0022	.9995					.9990		1.0004	1.0002
9		1.0004		1.0025	.9972	1.0027	.9991					1.0000		1.0001	1.0002
10		.9995		1.0034	.9972	1.0027	.9996					.9998		1.0002	1.0001
11		.9996		1.0025	.9977	1.0011	.9997					1.0000		1.0014	1.0008
12		1.0001		1.0030	.9977	1.0023	.9996					.9995		.9993	1.0001
13		.9994		1.0023	.9978	1.0031	.9991					.9992		1.0012	1.0001
14		.9998		1.0026	.9972	1.0032	.9994					.9997		1.0006	1.0002
15		.9984		1.0022	.9978	1.0029	.9998					1.0001		1.0002	1.0003
16		.9987		1.0025	.9971	1.0008	.9995					1.0005		1.0016	.9997
17		.9989		1.0017	.9973	1.0010	.9993					1.0005		1.0012	1.0006
18		.9986		1.0025	.9976	1.0000	.9995					1.0025		1.0009	1.0004
19		1.0000		1.0019	.9976	.9997	1.0000					.9998		1.0007	1.0003
20		1.0003		1.0031	.9978	.9989	.9991					1.0015		1.0015	1.0005
21		1.0006		1.0016	.9981	.9994	.9995					1.0013		1.0024	1.0003
	MEAN	.9996		1.0025	.9973	1.0019	.9995					1.0002		1.0005	1.0004
	S.D.	.0007		.0005	.0006	.0015	.0002					.0008		.0008	.0003

20	23	24	MEAN	S.D.
945.0	941.7	943.0	944.07	2.024
945.0	941.4	943.0	943.95	2.097
945.0	941.4	943.0	943.65	1.924
944.0	941.2	942.5	943.35	1.760
944.0	940.5	942.0	942.64	1.656
944.0	939.8	941.5	942.09	1.629
945.0	940.4	942.0	942.50	1.683
944.0	940.4	942.0	942.60	1.597
944.0	940.6	942.0	942.92	1.656
945.0	941.0	943.0	943.78	1.849
944.0	941.6	943.0	943.71	1.385
946.0	942.0	943.0	944.17	1.659
946.0	942.5	944.0	944.86	1.674
946.0	942.8	945.0	945.45	1.748
947.0	943.3	945.5	945.80	1.622
948.0	943.2	945.0	945.52	1.725
948.0	942.7	945.0	945.36	1.663
946.0	942.2	944.0	944.66	1.650
947.0	941.9	944.0	944.30	1.496
945.0	941.5	943.0	944.05	1.665
944.0	941.2	943.0	943.75	1.417

1.0010	.9975	.9989
1.0011	.9973	.9990
1.0014	.9976	.9993
1.0007	.9977	.9991
1.0014	.9977	.9993
1.0020	.9976	.9994
1.0027	.9978	.9995
1.0015	.9977	.9994
1.0011	.9975	.9990
1.0013	.9971	.9992
1.0003	.9978	.9992
1.0019	.9977	.9988
1.0012	.9975	.9991
1.0006	.9972	.9995
1.0013	.9974	.9997
1.0026	.9975	.9995
1.0028	.9972	.9996
1.0014	.9974	.9993
1.0029	.9975	.9997
1.0010	.9973	.9989
1.0003	.9973	.9992
1.0015	.9975	.9993
.0008	.0002	.0003

TABLE 3-26

THIRD INTERCOMPARISON - NOVEMBER 9, 1979
 RUN 26: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	12:21:00	942.4		945.3	941.0	943.3	943.4					944.5		943.0	
2	12:21:30	941.4		945.3	941.0	943.3	943.3					944.6		944.0	
3	12:22:00	939.5		944.4	939.3	942.6	941.5					941.0		942.0	
4	12:22:30	937.5		940.9	938.5	940.3	940.5					941.2		941.0	
5	12:23:00	935.5		940.9	936.8	938.8	939.0					941.1		939.0	
6	12:23:30	938.5		941.8	937.6	940.3	940.8					941.5		940.0	
7	12:24:00	937.5		943.6	938.5	942.6	940.6					941.8		941.0	
8	12:24:30	936.5		942.7	938.1	942.6	940.3					941.1		940.0	
9	12:25:00	935.5		942.7	936.8	940.3	939.1					940.0		939.0	
10	12:25:30	932.6		940.9	936.0	940.3	938.6					939.3		938.0	
11	12:26:00	932.6		939.2	935.1	938.1	936.7					937.6		938.0	
12	12:26:30	934.5		937.5	933.4	938.8	934.8					937.0		937.0	
13	12:27:00	931.6		936.6	932.6	938.1	934.0					936.7		936.0	
14	12:27:30	929.6		935.7	933.4	938.1	935.1					937.2		936.0	
15	12:28:00	933.6		938.3	934.3	938.8	935.6					938.5		937.0	
16	12:28:30	928.6		937.5	935.1	939.6	936.8					937.6		937.0	
17	12:29:00	932.6		938.3	934.3	938.8	936.4					938.2		935.0	
18	12:29:30	937.5		938.3	934.7	938.8	935.9					937.8		937.0	
19	12:30:00	934.5		939.2	936.0	940.3	936.7					939.4		936.0	
20	12:30:30	935.5		941.0	936.0	940.3	937.8					938.9		937.0	
21	12:31:00	936.5		941.0	936.8	941.8	938.1					941.1		939.0	
1		.9994		1.0024	.9979	1.0003	1.0004					1.0016		1.0000	
2		.9982		1.0023	.9978	1.0002	1.0002					1.0016		1.0009	
3		.9980		1.0032	.9978	1.0013	1.0001					.9996		1.0007	
4		.9974		1.0010	.9985	1.0004	1.0006					1.0014		1.0011	
5		.9966		1.0023	.9980	1.0001	1.0003					1.0025		1.0003	
6		.9985		1.0020	.9975	1.0004	1.0009					1.0017		1.0001	
7		.9966		1.0031	.9977	1.0020	.9999					1.0012		1.0003	
8		.9963		1.0029	.9980	1.0028	1.0003					1.0012		1.0000	
9		.9961		1.0038	.9975	1.0012	1.0000					1.0009		.9999	
10		.9940		1.0029	.9976	1.0022	1.0004					1.0012		.9998	
11		.9956		1.0026	.9983	1.0015	1.0000					1.0009		1.0014	
12		.9985		1.0017	.9973	1.0031	.9988					1.0012		1.0012	
13		.9965		1.0039	.9976	1.0035	.9991					1.0020		1.0012	
14		.9942		1.0008	.9983	1.0033	1.0001					1.0024		1.0011	
15		.9973		1.0023	.9980	1.0029	.9994					1.0025		1.0009	
16		.9919		1.0034	.9989	1.0037	1.0007					1.0015		1.0009	
17		.9962		1.0022	.9980	1.0028	1.0002					1.0021		.9987	
18		1.0006		1.0035	.9976	1.0020	.9989					1.0009		1.0001	
19		.9972		1.0022	.9988	1.0034	.9996					1.0025		.9988	
20		.9974		1.0033	.9980	1.0026	.9999					1.0011		.9990	
21		.9974		1.0022	.9977	1.0030	.9991					1.0023		1.0000	
MEAN		.9969		1.0023	.9979	1.0020	1.0000					1.0015		1.0003	
S.D.		.0019		.0008	.0004	.0012	.0006					.0007		.0008	

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20	23	24	MEAN	S.D.
943.0	941.2	943.0	943.01	1.308
943.0	941.3	944.0	943.12	1.466
942.0	939.5	942.0	941.38	1.610
940.0	938.3	941.0	939.92	1.330
940.0	937.0	939.0	938.71	1.805
941.0	937.6	940.0	939.91	1.524
942.0	938.7	940.5	940.68	1.948
941.0	937.7	940.0	940.00	2.041
941.0	937.0	940.0	939.14	2.168
941.0	936.5	939.0	938.22	2.596
938.0	934.9	937.0	936.72	1.975
936.0	934.0	936.0	935.90	1.714
936.0	931.9	935.0	934.85	2.230
937.0	932.7	935.0	934.98	2.516
936.0	933.7	935.5	936.13	1.960
938.0	934.4	937.0	936.16	3.024
938.0	933.9	936.5	936.20	2.156
938.0	934.1	937.0	936.91	1.551
938.0	934.4	936.5	937.10	2.048
940.0	935.0	937.5	937.90	2.096
941.0	936.0	938.5	938.98	2.145

1.0000	.9981	1.0000
.9999	.9981	1.0009
1.0007	.9980	1.0007
1.0001	.9983	1.0011
1.0014	.9982	1.0003
1.0012	.9975	1.0001
1.0014	.9979	.9998
1.0011	.9976	1.0000
1.0020	.9977	1.0009
1.0030	.9982	1.0008
1.0014	.9981	1.0003
1.0001	.9980	1.0001
1.0012	.9968	1.0002
1.0022	.9976	1.0000
.9999	.9974	.9993
1.0020	.9981	1.0009
1.0019	.9975	1.0003
1.0012	.9970	1.0001
1.0010	.9971	.9994
1.0022	.9969	.9996
1.0022	.9968	.9995
1.0012	.9977	1.0002
.0009	.0005	.0005

TABLE 3-27

THIRD INTERCOMPARISON - NOVEMBER 9, 1979
 RUN 27: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	13:20:00	915.7		920.2	915.5	919.1	916.6					919.0		919.0	
2	13:20:30	916.6		920.2	916.4	920.6	917.8					920.1		920.0	
3	13:21:00	918.6		921.9	918.1	922.1	919.7					922.0		921.5	
4	13:21:30	920.6		922.7	918.9	923.6	920.3					922.7		922.5	
5	13:22:00	917.6		920.2	916.4	920.6	917.9					920.1		920.5	
6	13:22:30	911.7		914.9	911.3	914.6	912.7					914.7		915.0	
7	13:23:00	910.7		914.0	910.5	913.8	910.7					912.5		913.0	
8	13:23:30	909.7		914.0	909.6	913.1	911.2					912.8		912.0	
9	13:24:00	910.7		912.3	910.5	914.6	911.7					912.8		912.0	
10	13:24:30	911.7		913.2	910.0	913.8	910.7					912.8		910.0	
11	13:25:00	909.7		914.0	910.5	913.8	911.5					913.0		912.0	
12	13:25:30	910.7		914.9	912.2	915.3	912.8					914.9		915.0	
13	13:26:00	913.7		917.5	914.7	916.8	915.3					916.5		918.0	
14	13:26:30	916.6		920.2	917.2	919.1	917.8					920.8		918.5	
15	13:27:00	915.7		919.3	915.5	918.3	916.7					918.5		918.0	
16	13:27:30	915.7		919.3	915.5	919.9	916.2					918.3		919.0	
17	13:28:00	916.6		920.2	916.4	919.9	917.7					918.8		919.0	
18	13:28:30	915.7		919.3	915.5	919.1	916.7					919.0		918.0	
19	13:29:00	916.6		920.2	916.8	919.9	917.3					919.3		920.0	
20	13:29:30	916.6		920.2	916.8	920.6	917.1					919.1		920.0	
21	13:30:00	916.6		919.3	915.5	919.9	917.2					917.7		919.0	
1		.9979		1.0028	.9977	1.0016	.9989					1.0015		1.0015	
2		.9980		1.0019	.9978	1.0023	.9993					1.0018		1.0017	
3		.9982		1.0018	.9977	1.0020	.9994					1.0019		1.0014	
4		.9993		1.0016	.9975	1.0026	.9990					1.0016		1.0014	
5		.9988		1.0016	.9975	1.0021	.9991					1.0015		1.0020	
6		.9983		1.0018	.9979	1.0015	.9994					1.0016		1.0019	
7		.9987		1.0023	.9985	1.0021	.9987					1.0007		1.0012	
8		.9980		1.0028	.9979	1.0018	.9997					1.0014		1.0006	
9		.9987		1.0005	.9985	1.0030	.9998					1.0010		1.0001	
10		1.0004		1.0020	.9985	1.0027	.9993					1.0016		.9985	
11		.9978		1.0025	.9987	1.0023	.9998					1.0014		1.0003	
12		.9971		1.0017	.9987	1.0021	.9994					1.0017		1.0018	
13		.9978		1.0019	.9989	1.0012	.9995					1.0008		1.0025	
14		.9983		1.0022	.9989	1.0010	.9996					1.0028		1.0003	
15		.9984		1.0023	.9982	1.0012	.9995					1.0015		1.0009	
16		.9982		1.0021	.9980	1.0028	.9987					1.0010		1.0018	
17		.9985		1.0024	.9983	1.0021	.9997					1.0009		1.0011	
18		.9982		1.0022	.9980	1.0019	.9993					1.0018		1.0007	
19		.9982		1.0021	.9984	1.0018	.9989					1.0011		1.0019	
20		.9982		1.0022	.9985	1.0026	.9988					1.0010		1.0019	
21		.9990		1.0019	.9978	1.0026	.9996					1.0002		1.0016	
	MEAN	.9984		1.0020	.9982	1.0021	.9993					1.0014		1.0012	
	S.D.	.0007		.0005	.0004	.0006	.0004					.0006		.0009	

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20	23	24	MEAN	S.D.
	915.5	918.0	917.62	1.821
	916.3	918.0	918.44	1.792
	918.1	920.0	920.22	1.699
	918.8	921.0	921.23	1.739
	916.9	918.0	918.69	1.656
	911.4	913.0	913.26	1.569
	909.9	912.0	911.90	1.518
	909.5	911.5	911.49	1.647
	910.2	912.0	911.87	1.351
	909.0	911.0	911.36	1.634
	909.7	911.0	911.69	1.637
	911.5	913.0	913.37	1.715
	913.7	915.5	915.74	1.564
	916.1	917.5	918.20	1.592
	915.5	917.0	917.17	1.426
	915.3	917.0	917.36	1.793
	916.2	917.0	917.98	1.538
	915.6	917.0	917.32	1.571
	916.5	918.0	918.29	1.562
	916.0	917.5	918.21	1.763
	915.6	917.0	917.53	1.583
	.9977	1.0004		
	.9977	.9995		
	.9977	.9998		
	.9974	.9997		
	.9981	.9993		
	.9980	.9997		
	.9978	1.0001		
	.9978	1.0000		
	.9982	1.0001		
	.9974	.9996		
	.9978	.9992		
	.9980	.9996		
	.9978	.9997		
	.9977	.9992		
	.9982	.9998		
	.9978	.9996		
	.9981	.9989		
	.9981	.9996		
	.9981	.9997		
	.9976	.9992		
	.9979	.9994		
	.9978	.9996		
	.0002	.0004		

TABLE 3-28

THIRD INTERCOMPARISON - NOVEMBER 9, 1979
 RUN 23: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	13:44:00	914.0		917.3	912.1	916.3	915.6					916.5		916.0	
2	13:44:30	909.1		914.7	909.6	914.8	912.3					913.7		912.5	
3	13:45:00	907.1		912.1	907.9	911.8	910.3					912.4		910.5	
4	13:45:30	908.1		913.8	909.6	913.3	911.1					913.5		911.5	
5	13:46:00	911.1		916.5	912.1	915.6	913.8					915.0		914.0	
6	13:46:30	911.1		917.3	912.1	914.8	915.1					916.2		915.0	
7	13:47:00	913.0		917.3	912.9	917.1	915.3					916.3		916.0	
8	13:47:30	915.0		918.2	912.9	917.8	916.1					915.7		915.0	
9	13:48:00	913.0		917.3	912.9	915.6	915.1					916.2		914.0	
10	13:48:30	912.1		917.3	912.9	915.6	915.9					916.0		914.0	
11	13:49:00	910.1		914.7	911.2	914.1	912.4					913.8		913.0	
12	13:49:30	910.1		914.7	910.4	913.3	912.9					913.9		912.0	
13	13:50:00	911.1		914.7	910.4	914.1	913.5					913.8		913.0	
14	13:50:30	916.0		914.7	910.4	913.3	912.7					914.4		912.0	
15	13:51:00	912.1		915.6	911.2	915.6	913.4					914.3		913.5	
16	13:51:30	911.1		912.9	909.6	912.6	911.6					911.6		912.0	
17	13:52:00	926.8		913.8	909.6	912.6	912.3					912.3		909.0	
18	13:52:30	910.1		911.2	907.9	910.3	910.1					910.7		909.0	
19	13:53:00	906.2		908.6	905.3	906.5	907.3					906.9		906.0	
20	13:53:30	904.2		909.5	904.5	905.0	906.5					907.4		906.0	
21	13:54:00	909.1		908.6	904.5	906.5	906.3					906.5		907.0	
1		.9988		1.0024	.9967	1.0013	1.0005					1.0015		1.0010	
2		.9967		1.0028	.9972	1.0029	1.0002					1.0017		1.0004	
3		.9968		1.0023	.9976	1.0019	1.0003					1.0026		1.0005	
4		.9966		1.0028	.9982	1.0023	.9999					1.0025		1.0003	
5		.9973		1.0032	.9983	1.0022	1.0002					1.0015		1.0004	
6		.9966		1.0034	.9977	1.0037	1.0010					1.0022		1.0009	
7		.9977		1.0024	.9976	1.0022	1.0002					1.0013		1.0010	
8		.9995		1.0030	.9972	1.0026	1.0007					1.0003		.9995	
9		.9982		1.0029	.9981	1.0011	1.0005					1.0017		.9993	
10		.9973		1.0029	.9981	1.0011	1.0014					1.0015		.9993	
11		.9974		1.0025	.9986	1.0018	1.0000					1.0015		1.0006	
12		.9978		1.0028	.9981	1.0013	1.0008					1.0019		.9999	
13		.9983		1.0022	.9975	1.0016	1.0009					1.0012		1.0004	
14		1.0034		1.0020	.9973	1.0005	.9998					1.0017		.9991	
15		.9987		1.0025	.9977	1.0025	1.0001					1.0011		1.0002	
16		.9996		1.0016	.9980	1.0013	1.0002					1.0002		1.0006	
17		1.0152		1.0010	.9964	.9997	.9994					.9994		.9957	
18		1.0004		1.0016	.9980	1.0006	1.0004					1.0011		.9992	
19		.9996		1.0023	.9986	.9999	1.0008					1.0004		.9994	
20		.9981		1.0040	.9985	.9990	1.0007					1.0017		1.0001	
21		1.0029		1.0023	.9978	1.0000	.9998					1.0000		1.0006	
MEAN		.9994		1.0025	.9978	1.0013	1.0004					1.0013		.9999	
S.D.		.0041		.0007	.0006	.0010	.0005					.0008		.0011	

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 20 23 24 MEAN S.D.

913.1	915.0	915.10	1.715
910.7	912.0	912.16	2.062
908.3	910.0	910.04	1.918
909.1	911.0	911.22	2.036
911.4	913.0	913.61	1.880
911.9	914.0	914.17	2.084
912.9	915.0	915.09	1.776
913.2	915.0	915.43	1.794
912.4	915.0	914.61	1.655
912.7	915.0	914.61	1.775
910.6	912.0	912.43	1.605
909.9	912.0	912.13	1.726
910.5	913.0	912.68	1.608
910.3	912.0	912.87	1.934
910.8	913.0	913.28	1.725
909.4	912.0	911.42	1.215
908.6	911.0	912.89	5.512
908.2	910.0	909.72	1.118
905.2	907.0	906.56	1.055
903.9	906.0	905.89	1.777
903.9	906.0	906.49	1.676

.9978	.9999
.9984	.9998
.9981	1.0000
.9977	.9998
.9976	.9993
.9975	.9998
.9976	.9999
.9976	.9995
.9976	1.0004
.9979	1.0004
.9980	.9995
.9976	.9999
.9976	1.0004
.9972	.9991
.9973	.9997
.9978	1.0006
.9953	.9979
.9983	1.0003
.9985	1.0005
.9978	1.0001
.9971	.9995
.9976	.9998
.0006	.0006

TABLE 3-29

THIRD INTERCOMPARISON - NOVEMBER 9, 1979
 RUN 29: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----																
		1	3	5	7	8	9	10	11	12	13	14	17	18	19			
1	14:23:00	863.4		864.2	861.3	865.0	863.9					865.1		864.0				
2	14:23:30	866.4		866.8	863.8	867.2	865.9					867.9		865.0				
3	14:24:00	867.3		867.6	865.5	869.5	867.3					868.6		867.0				
4	14:24:30	867.3		867.6	865.5	870.3	867.5					868.8		867.0				
5	14:25:00	867.3		868.5	866.4	870.3	867.5					869.3		869.0				
6	14:25:30	869.3		870.2	867.2	871.8	869.2					871.4		870.0				
7	14:26:00	868.3		868.5	866.4	870.3	867.3					869.3		869.0				
8	14:26:30	862.4		861.5	860.4	864.2	861.4					861.8		862.0				
9	14:27:00	859.5		855.5	854.5	857.4	855.2					858.0		857.0				
10	14:27:30	872.3		856.3	854.5	858.9	855.7					857.2		857.0				
11	14:28:00	865.4		854.6	853.6	856.6	855.1					856.3		857.5				
12	14:28:30	865.4		854.6	853.6	857.4	855.0					855.8		856.0				
13	14:29:00	857.5		853.7	851.9	855.9	853.8					854.2		854.0				
14	14:29:30	854.6		853.7	851.9	855.1	853.2					855.0		854.0				
15	14:30:00	856.5		853.7	853.6	856.6	855.5					856.5		856.0				
16	14:30:30	864.4		851.1	852.8	856.6	854.5					855.7		855.0				
17	14:31:00	851.6		852.8	850.3	852.1	851.3					852.9		852.0				
18	14:31:30	847.7		847.6	844.3	846.8	845.3					847.0		847.0				
19	14:32:00	843.7		844.1	840.9	843.0	842.0					843.9		844.0				
20	14:32:30	851.6		840.7	838.4	840.8	839.2					842.4		839.0				
21	14:33:00	844.7		842.4	838.8	841.5	840.1					840.6		839.0				
1		.9997		1.0006	.9972	1.0015	1.0002					1.0016		1.0003				
2		1.0006		1.0011	.9976	1.0015	1.0000					1.0023		.9990				
3		1.0000		1.0004	.9980	1.0026	1.0000					1.0015		.9997				
4		.9998		1.0002	.9978	1.0033	1.0001					1.0016		.9995				
5		.9990		1.0004	.9980	1.0025	.9993					1.0013		1.0010				
6		.9997		1.0007	.9972	1.0025	.9995					1.0021		1.0005				
7		1.0002		1.0004	.9980	1.0025	.9991					1.0014		1.0010				
8		1.0006		.9996	.9983	1.0027	.9995					.9999		1.0002				
9		1.0035		.9989	.9977	1.0011	.9985					1.0018		1.0006				
10		1.0165		.9979	.9958	1.0009	.9972					.9989		.9987				
11		1.0104		.9978	.9967	1.0002	.9984					.9998		1.0012				
12		1.0107		.9981	.9969	1.0013	.9985					.9995		.9997				
13		1.0039		.9995	.9973	1.0020	.9996					1.0000		.9998				
14		1.0012		1.0001	.9980	1.0017	.9995					1.0016		1.0005				
15		1.0015		.9982	.9981	1.0016	1.0003					1.0015		1.0009				
16		1.0107		.9951	.9971	1.0016	.9991					1.0005		.9997				
17		1.0000		1.0014	.9985	1.0006	.9996					1.0015		1.0005				
18		1.0017		1.0015	.9976	1.0006	.9988					1.0008		1.0008				
19		1.0009		1.0014	.9976	1.0001	.9989					1.0012		1.0013				
20		1.0126		.9996	.9969	.9997	.9978					1.0016		.9976				
21		1.0048		1.0021	.9978	1.0010	.9993					.9999		.9980				
MEAN		1.0037		.9998	.9975	1.0015	.9992					1.0010		1.0000				
S.D.		.0052		.0016	.0006	.0010	.0008					.0009		.0010				

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20	23	24	MEAN	S. D.
	862.4	864.0	863.70	1.207
	864.5	865.5	865.89	1.327
	865.7	867.0	867.28	1.255
	866.0	867.0	867.44	1.428
	866.9	868.0	868.13	1.254
	868.3	869.0	869.60	1.443
	866.5	867.5	868.12	1.310
	861.1	862.0	861.87	1.052
	855.1	856.0	856.47	1.628
	855.1	856.0	858.11	5.473
	854.0	855.0	856.46	3.583
	853.5	855.0	856.26	3.636
	852.5	854.0	854.17	1.675
	852.0	853.0	853.61	1.191
	853.5	855.0	855.21	1.314
	853.3	854.0	855.27	3.791
	850.0	851.5	851.61	.993
	845.0	846.0	846.30	1.207
	841.6	843.0	842.91	1.162
	838.2	839.0	841.03	4.187
	838.9	840.0	840.67	1.940

.9985 1.0003
 .9984 .9996
 .9982 .9997
 .9983 .9995
 .9986 .9998
 .9985 .9993
 .9981 .9993
 .9991 1.0002
 .9984 .9995
 .9965 .9975
 .9971 .9983
 .9968 .9985
 .9980 .9998
 .9981 .9993
 .9980 .9998
 .9977 .9985
 .9981 .9999
 .9985 .9996
 .9984 1.0001
 .9966 .9976
 .9979 .9992

 .9980 .9993
 .0007 .0008

THIRD INTERCOMPARISON - NOVEMBER 5,8,9, 1979
SUMMARY OF EACH INSTRUMENT RELATIVE TO MEAN OF ALL INSTRUMENTS

RUN NO.	INSTRUMENT IDENTIFICATION NUMBER													
	1	3	5	7	8	9	10	11	12	13	14	17	18	19
1	1.0033	1.0003		.9970	1.0019	.9989	1.0020	1.0030		1.0007	1.0005	1.0005	.9986	.9980
2	.9988	.9979		.9964	1.0009	.9991	1.0027	.9994	1.0060	1.0023	1.0012	1.0015	.9998	.9999
3	.9983	1.0002		.9967	.9993	.9986	1.0042	1.0021	1.0010	1.0020	1.0002	1.0023	.9974	.9993
4	.9987	.9896		.9973	1.0006	.9996	1.0030	1.0009	1.0101	1.0024	1.0006	1.0006	1.0023	1.0004
5	.9943	1.0003		.9964	1.0013	.9978	1.0032	1.0048	1.0092	1.0015	1.0016	.9999	1.0004	.9997
6	.9962	.9910		.9967	1.0006	.9989	1.0034	1.0021	1.0056	1.0031	1.0008	1.0052	.9998	1.0001
7	.9997	.9905		.9969	1.0005	.9991	1.0034	1.0050	1.0090	1.0026	1.0001	.9986	1.0002	.9998
8	.9967	.9847		.9974	1.0013	.9998	1.0046	1.0008	1.0054	1.0045	1.0012	1.0030	1.0016	1.0008
9	1.0008	.9850		.9970	1.0012	.9993	1.0039	1.0015	1.0019	1.0025	1.0017	1.0040	1.0004	1.0009
10	.9953	.9844		.9978	1.0024	.9992	1.0041	1.0024	1.0050	1.0030	1.0027	1.0035	1.0021	1.0013
11	1.0018	.9895		.9967	1.0011	.9986	1.0041	1.0015	1.0040	1.0029	1.0012	1.0022	.9995	.9997
12	.9978	.9874		.9967	1.0007	.9986	1.0033	1.0022	1.0091	1.0026	1.0008	1.0025	.9992	1.0003
13	1.0025	.9906		.9971	.9997	.9983	1.0027	1.0036	1.0068	1.0026	1.0015	1.0028	.9993	1.0003
14		.9932		.9967	1.0028			1.0041	1.0070	1.0020	.9993	1.0027	1.0011	.9991
15		.9956		.9974	.9987			1.0067	1.0008	1.0022	1.0005	1.0032	.9978	1.0004
16		.9808		.9974	1.0019			1.0025	1.0066	1.0056	1.0009	1.0035	1.0006	1.0005
17		.9812		.9978	1.0025			1.0059	1.0059	1.0029	1.0011	1.0032	1.0010	1.0009
18	.9981	.9789		.9988	1.0023	1.0004		1.0069	1.0071	1.0031	1.0009	1.0022	1.0011	1.0006
19	.9989	1.0015		.9960	1.0013	.9981		1.0032	1.0079	1.0009	.9995	1.0008	.9996	.9986
20	.9982	.9956	1.0003	.9973	1.0013	.9986		1.0062	1.0068	1.0014	1.0006	1.0014	.9996	.9996
21	.9989	.9952	1.0012	.9966	1.0025	.9988		1.0029	1.0088	1.0005	.9999	1.0005	.9993	.9988
22	.9981	.9956	1.0011	.9968	1.0008	.9986		1.0044	1.0089	1.0014	1.0005	1.0005	.9992	.9997
23	.9981	.9982	1.0004	.9965	.9999	.9982		1.0043	1.0112	1.0020	.9997	1.0006	.9985	.9990
24	.9984	.9961	1.0005	.9970	1.0006	.9985		1.0039	1.0098	1.0014	1.0000	1.0006	.9991	.9996
25	.9996		1.0025	.9973	1.0019	.9995					1.0002		1.0005	1.0004
26	.9969		1.0023	.9979	1.0020	1.0000					1.0015		1.0003	
27	.9984		1.0023	.9982	1.0021	.9993					1.0014		1.0012	
28	.9994		1.0025	.9978	1.0013	1.0004					1.0013		.9999	
29	1.0037		.9993	.9975	1.0015	.9992					1.0010		1.0000	
MEAN	.9988	.9918	1.0013	.9971	1.0012	.9990	1.0034	1.0033	1.0067	1.0023	1.0008	1.0019	1.0000	.9999
S.D.	.0023	.0067	.0013	.0006	.0010	.0007	.0007	.0020	.0028	.0011	.0007	.0015	.0012	.0008

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20	23	24
.9972		.9982
1.0008		.9984
1.0007		.9986
1.0000		.9992
.9959	.9974	.9983
1.0025	.9970	.9985
1.0001	.9978	.9987
1.0007	.9985	.9995
1.0034	.9987	.9994
1.0024	.9980	1.0003
1.0010	.9970	.9992
1.0015	.9974	.9993
.9998	.9978	.9997
1.0010	.9980	.9984
.9995	.9985	.9989
1.0018	.9989	.9992
1.0002	.9983	.9991
1.0004	.9997	.9986
.9991	.9969	.9976
.9987	.9975	.9981
1.0009	.9973	.9979
.9994	.9967	.9984
.9995	.9961	.9978
.9988	.9972	.9983
1.0015	.9975	.9993
1.0012	.9977	1.0002
	.9978	.9996
	.9976	.9998
	.9980	.9993
1.0003	.9977	.9989
.0016	.0008	.0007

Fourth Intercomparison - November 17 - 19, 1980

TABLE 4- 1

FOURTH INTERCOMPARISON - NOVEMBER 17, 1980
 RUN 1: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	10:54:00		1003.0	995.5	1000.8	1002.6	1007.0	1005.0	1023.1	1002.0	1004.0	1004.0	1000.9		1003.8
2	10:54:30		1002.9	995.5	1005.3	1003.1	1006.0	1005.0		1002.0	1003.0	1003.0	1001.0		1004.6
3	10:55:00		1003.7	995.5	1005.3	1004.2	1005.0	1005.0	997.3	1003.0	1002.0	1004.0	1001.1		1004.6
4	10:55:30		1003.4	995.5	1004.6	1003.4	1003.0	1005.0		1003.0	1002.0	1005.0	1000.8		1004.7
5	10:56:00		1001.1	993.0	999.3	1001.2	1002.0	1003.0	970.8	1002.0	999.0	1002.0	999.1		1002.9
6	10:56:30		998.6	991.3	999.3	998.3	999.0	1001.0		999.0	997.0	1000.0	996.4		1000.0
7	10:57:00		998.7	994.7	1003.1	998.7	1002.0	1004.0	994.0	1001.5	998.5	1003.0	999.2		1003.1
8	10:57:30		999.5	992.2	1000.8	1000.1	1002.0	1003.0		1001.0	998.0	1002.0	998.4		1002.0
9	10:58:00		999.0	992.2	1001.6	999.7	1000.0	1000.0	1008.0	997.0	998.0	1000.0	997.4		1000.9
10	10:58:30		1000.3	993.9	1003.8	1001.1	1003.0	1003.0		1001.0	999.0	1001.0	998.6		1002.4
11	10:59:00		1003.2	994.7	1002.3	1003.6	1004.0	1004.0	1030.4	1002.0	1002.0	1003.0	1000.6		1004.2
12	10:59:30		1004.1	998.1	1006.8	1004.3	1007.0	1006.0		1004.0	1003.5	1005.0	1002.2		1006.0
13	11:00:00		1005.3	998.1	1006.8	1006.0	1006.0	1006.0	1021.8	1005.0	1003.0	1005.0	1002.4		1006.3
14	11:00:30		1002.4	999.8	1010.6	1003.0	1008.0	1006.0		1005.0	1004.5	1007.0	1003.7		1007.5
15	11:01:00		1007.2	999.8	1009.1	1007.3	1008.0	1008.0	1014.7	1007.0	1005.5	1008.0	1004.8		1008.6
16	11:01:30		1007.7	999.8	1003.1	1007.5	1008.0	1009.0		1007.0	1006.0	1007.0	1004.5		1008.5
17	11:02:00		1007.9	999.8	1006.8	1008.1	1008.0	1008.0	1006.5	1007.0	1006.0	1007.0	1004.4		1008.1
18	11:02:30		1007.5	999.8	1009.1	1008.0	1010.0	1008.0		1006.0	1006.0	1006.0	1004.3		1008.0
19	11:03:00		1006.6	998.9	1008.4	1006.8	1009.0	1008.0	1023.3	1006.0	1005.0	1006.0	1003.8		1007.8
20	11:03:30		1007.1	999.8	1008.4	1008.2	1010.0	1008.0		1006.0	1006.0	1006.0	1004.4		1008.2
21	11:04:00		1008.6	1000.6	1009.9	1009.1	1010.0	1009.0	1008.7	1007.0	1007.0	1008.0	1005.4		1009.2
1			.9987	.9913	.9965	.9983	1.0027	1.0007	1.0187	.9977	.9997	.9997	.9966		.9995
2			1.0000	.9927	1.0024	1.0002	1.0031	1.0021		.9992	1.0001	1.0001	.9982		1.0017
3			1.0011	.9929	1.0027	1.0016	1.0024	1.0024	.9947	1.0004	.9994	1.0014	.9985		1.0020
4			1.0006	.9928	1.0018	1.0006	1.0002	1.0022		1.0002	.9992	1.0022	.9980		1.0019
5			1.0029	.9948	1.0011	1.0030	1.0038	1.0048	.9726	1.0038	1.0008	1.0038	1.0009		1.0047
6			1.0004	.9931	1.0011	1.0001	1.0008	1.0028		1.0008	.9988	1.0018	.9982		1.0018
7			.9986	.9946	1.0030	.9986	1.0019	1.0039	.9939	1.0014	.9984	1.0029	.9991		1.0030
8			.9996	.9923	1.0009	1.0002	1.0021	1.0031		1.0011	.9981	1.0021	.9985		1.0021
9			.9995	.9927	1.0021	1.0002	1.0005	1.0005	1.0086	.9975	.9985	1.0005	.9979		1.0014
10			.9997	.9933	1.0032	1.0005	1.0024	1.0024		1.0004	.9984	1.0004	.9980		1.0018
11			.9989	.9904	.9980	.9993	.9997	.9997	1.0259	.9977	.9977	.9987	.9963		.9999
12			.9998	.9939	1.0025	1.0000	1.0027	1.0017		.9997	.9992	1.0007	.9979		1.0017
13			.9994	.9923	1.0009	1.0001	1.0001	1.0001	1.0159	.9992	.9972	.9992	.9966		1.0004
14			.9971	.9946	1.0053	.9977	1.0027	1.0007		.9997	.9992	1.0017	.9984		1.0022
15			.9999	.9926	1.0018	1.0000	1.0007	1.0007	1.0073	.9997	.9982	1.0007	.9975		1.0013
16			1.0015	.9936	.9969	1.0013	1.0018	1.0027		1.0008	.9998	1.0008	.9983		1.0023
17			1.0014	.9934	1.0003	1.0016	1.0015	1.0015	1.0000	1.0005	.9995	1.0005	.9979		1.0016
18			1.0009	.9932	1.0025	1.0014	1.0034	1.0014		.9994	.9994	.9994	.9977		1.0014
19			.9993	.9916	1.0010	.9995	1.0016	1.0006	1.0158	.9987	.9977	.9987	.9965		1.0004
20			1.0005	.9933	1.0018	1.0016	1.0034	1.0014		.9994	.9994	.9994	.9978		1.0016
21			1.0009	.9929	1.0022	1.0014	1.0023	1.0013	1.0010	.9993	.9993	1.0003	.9977		1.0015
MEAN			1.0000	.9930	1.0013	1.0003	1.0019	1.0018	1.0049	.9998	.9990	1.0007	.9979		1.0016
S.D.			.0012	.0011	.0021	.0013	.0012	.0013	.0148	.0014	.0009	.0014	.0010		.0011

-----	27	MEAN	S.D.
	1004.0	1004.28	6.277
	1002.8	1002.85	2.728
	1002.9	1002.58	3.026
	1002.7	1002.76	2.615
	1000.9	998.18	8.629
	998.2	998.17	2.509
	1001.1	1000.12	3.186
	1000.2	999.93	2.865
	999.1	999.45	3.488
	1000.5	1000.63	2.648
	1002.5	1004.35	8.208
	1004.3	1004.27	2.401
	1004.4	1005.85	5.319
	1005.7	1005.27	2.876
	1006.9	1007.30	3.255
	1006.7	1006.23	2.617
	1006.6	1006.48	2.268
	1006.6	1006.61	2.648
	1006.0	1007.35	5.437
	1006.7	1006.57	2.599
	1007.7	1007.71	2.493

.9997
1.0000
1.0003
.9999
1.0027
1.0000
1.0010
1.0003
.9996
.9999
.9982
1.0000
.9986
1.0004
.9996
1.0005
1.0001
1.0000
.9987
1.0001
1.0000

1.0000
.0009

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TABLE 5-4-2

FOURTH INTERCOMPARISON - NOVEMBER 17, 1980
 RUN 2: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----														
		3	5	7	8	10	11	13	16	17	18	20	24	25	26	
1	11:21:00	1024.0	1019.8	1016.0	1020.0	1021.9	1023.0	1021.0	1018.9	1018.0	1019.0	1019.0	1017.4		1020.4	
2	11:21:30	1021.0	1019.4	1014.3	1020.0	1021.4	1021.0	1021.0		1017.0	1018.0	1018.0	1016.1		1019.1	
3	11:22:00	1020.0	1020.2	1015.1	1019.2	1022.3	1022.0	1022.0	1041.7	1018.0	1018.0	1019.0	1017.0		1020.0	
4	11:22:30	1014.0	1021.1	1016.6	1023.7	1023.0	1024.0	1022.0		1019.0	1018.0	1019.0	1017.6		1020.9	
5	11:23:00	1017.0	1019.2	1012.6	1019.2	1021.5	1023.0	1021.0	1047.2	1018.0	1017.0	1018.0	1017.2		1020.4	
6	11:23:30	1017.0	1020.0	1016.0	1023.0	1022.7	1024.0	1021.0		1019.0	1019.0	1019.0	1017.8		1021.1	
7	11:24:00	1021.0	1019.5	1016.0	1021.5	1022.3	1023.0	1022.0	1032.7	1019.0	1019.0	1019.0	1017.5		1020.7	
8	11:24:30	1024.0	1020.7	1016.8	1021.5	1023.2	1023.0	1023.0		1020.0	1020.0	1020.0	1018.2		1021.7	
9	11:25:00	1018.0	1020.1	1017.7	1021.5	1023.4	1025.0	1023.0	1031.8	1020.0	1020.0	1019.0	1018.3		1021.4	
10	11:25:30	1023.0	1021.6	1018.5	1022.2	1024.2	1026.0	1023.0		1020.0	1020.0	1020.0	1019.3		1022.6	
11	11:26:00	1019.0	1023.2	1019.4	1026.8	1025.4	1026.0	1025.0	1016.9	1022.0	1022.0	1022.0	1020.5		1023.7	
12	11:26:30	1021.0	1023.3	1019.4	1020.0	1025.5	1025.0	1025.0		1022.0	1021.0	1022.0	1020.3		1023.9	
13	11:27:00	1020.0	1023.6	1020.2	1023.7	1025.2	1026.0	1025.0	1036.5	1022.0	1022.0	1022.0	1020.6		1024.2	
14	11:27:30	1020.0	1023.5	1021.1	1024.5	1025.9	1026.0	1025.0		1023.0	1022.0	1022.0	1020.9		1024.3	
15	11:28:00	1020.0	1024.7	1021.9	1027.5	1027.5	1028.0	1027.0	1034.2	1024.0	1024.0	1024.0	1022.5		1025.8	
16	11:28:30	1027.0	1026.1	1021.9	1028.3	1027.8	1028.0	1028.0		1025.0	1025.0	1024.0	1023.2		1026.3	
17	11:29:00	1025.0	1025.9	1021.9	1026.0	1028.6	1029.0	1028.0	1034.2	1025.0	1025.0	1025.0	1023.7		1026.9	
18	11:29:30	1028.0	1026.1	1021.1	1026.8	1029.2	1028.0	1027.0		1024.0	1025.0	1024.0	1022.9		1026.4	
19	11:30:00	1023.0	1024.8	1019.4	1023.7	1027.3	1025.0	1025.0	1043.1	1022.0	1022.0	1022.0	1020.5		1023.6	
20	11:30:30	1022.0	1022.6	1016.8	1023.0	1026.1	1023.0	1024.0		1020.0	1020.0	1020.0	1019.0		1022.2	
21	11:31:00		1015.7			1018.0							1010.3		1004.0	
1		1.0049	1.0007	.9970	1.0009	1.0028	1.0039	1.0019	.9999	.9990	1.0000	1.0000	.9984		1.0013	
2		1.0023	1.0007	.9957	1.0013	1.0027	1.0023	1.0023		.9984	.9994	.9994	.9975		1.0005	
3		.9992	.9994	.9944	.9984	1.0014	1.0012	1.0012	1.0205	.9972	.9972	.9982	.9963		.9992	
4		.9944	1.0014	.9972	1.0039	1.0032	1.0042	1.0023		.9993	.9983	.9993	.9979		1.0012	
5		.9965	.9986	.9922	.9986	1.0009	1.0024	1.0004	1.0261	.9975	.9965	.9975	.9967		.9998	
6		.9972	1.0002	.9963	1.0031	1.0028	1.0041	1.0012		.9992	.9992	.9992	.9980		1.0013	
7		1.0003	.9988	.9954	1.0008	1.0015	1.0022	1.0012	1.0117	.9983	.9983	.9983	.9968		1.0000	
8		1.0032	.9999	.9961	1.0007	1.0024	1.0022	1.0022		.9992	.9992	.9992	.9975		1.0009	
9		.9968	.9989	.9965	1.0003	1.0021	1.0037	1.0017	1.0104	.9988	.9988	.9978	.9971		1.0002	
10		1.0015	1.0001	.9971	1.0007	1.0027	1.0044	1.0015		.9985	.9985	.9985	.9979		1.0011	
11		.9968	1.0009	.9972	1.0044	1.0031	1.0036	1.0027	.9947	.9997	.9997	.9997	.9983		1.0014	
12		.9988	1.0011	.9973	.9979	1.0032	1.0028	1.0028		.9998	.9988	.9998	.9982		1.0017	
13		.9964	1.0000	.9966	1.0001	1.0015	1.0023	1.0013	1.0126	.9984	.9984	.9984	.9970		1.0005	
14		.9971	1.0005	.9981	1.0015	1.0028	1.0029	1.0019		1.0000	.9990	.9990	.9979		1.0013	
15		.9949	.9995	.9968	1.0022	1.0022	1.0027	1.0017	1.0088	.9988	.9988	.9988	.9973		1.0006	
16		1.0013	1.0004	.9963	1.0026	1.0021	1.0023	1.0023		.9994	.9994	.9984	.9976		1.0006	
17		.9988	.9997	.9958	.9998	1.0023	1.0027	1.0017	1.0078	.9988	.9988	.9988	.9975		1.0007	
18		1.0024	1.0006	.9957	1.0013	1.0036	1.0024	1.0015		.9985	.9995	.9985	.9975		1.0009	
19		.9986	1.0004	.9951	.9993	1.0028	1.0006	1.0006	1.0183	.9977	.9977	.9977	.9962		.9992	
20		1.0007	1.0013	.9956	1.0017	1.0047	1.0017	1.0027		.9987	.9987	.9987	.9978		1.0009	
21			1.0037			1.0059							.9983		.9921	
MEAN		.9991	1.0003	.9961	1.0010	1.0027	1.0027	1.0017	1.0111	.9988	.9987	.9988	.9975		1.0002	
S.D.		.0029	.0011	.0013	.0017	.0011	.0010	.0007	.0093	.0007	.0008	.0007	.0006		.0020	

27	MEAN	S.D.
1008.3	1019.05	3.763
1016.0	1018.64	2.286
1017.0	1020.82	6.363
1017.0	1019.70	3.035
1017.0	1020.59	8.068
1018.0	1019.82	2.431
1017.0	1020.73	4.023
1018.0	1020.78	2.227
1018.0	1021.23	3.773
1019.0	1021.49	2.247
1020.0	1022.28	2.920
1020.0	1022.18	2.136
1020.0	1023.64	4.217
1021.0	1023.02	2.013
1022.0	1025.22	3.541
1023.0	1025.66	2.156
1023.0	1026.23	3.066
1023.0	1025.50	2.388
1020.0	1024.39	5.811
1018.0	1021.28	2.592
	1012.06	6.234

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TABLE 4- 3

FOURTH INTERCOMPARISON - NOVEMBER 17, 1980
 RUN 3: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	11:56:00	1023.0	1020.9	1017.8	1024.7	1023.0	1024.0	1022.0	1030.4	1019.0	1020.0	1018.0	1018.5		1022.3
2	11:56:30	1025.0	1020.7	1017.8	1024.0	1023.5	1026.0	1022.0		1020.0	1021.0	1019.0	1019.4		1023.2
3	11:57:00	1024.0	1021.0	1016.9	1023.2	1022.8	1024.0	1021.0	1034.4	1019.0	1019.0	1018.0	1018.5		1022.4
4	11:57:30	1018.0	1019.8	1016.9	1023.2	1022.2	1023.0	1021.0		1019.0	1018.0	1017.0	1017.6		1021.5
5	11:58:00	1021.0	1019.6	1015.3	1021.0	1021.6	1022.0	1020.0	1028.7	1019.0	1017.0	1017.0	1017.1		1021.1
6	11:58:30	1017.0	1019.7	1017.8	1023.2	1022.7	1023.0	1022.0		1019.0	1019.0	1018.0	1018.7		1022.7
7	11:59:00	1018.0	1020.3	1016.9	1024.0	1022.2	1021.0	1021.0	1032.7	1018.0	1018.0	1018.0	1017.7		1022.1
8	11:59:30		1017.8	1014.4	1020.2	1019.7	1018.0	1019.0		1017.0	1015.0	1016.0	1015.7		1019.8
9	12:00:00	1018.0	1019.9	1016.1	1022.5	1021.3	1021.0	1020.0	1029.5	1017.0	1018.0	1017.0	1016.7		1020.8
10	12:00:30	1020.0	1019.7	1016.1	1022.5	1021.6	1023.0	1020.0		1018.0	1018.0	1016.0	1017.1		1021.4
11	12:01:00	1020.0	1019.5	1015.3	1024.7	1021.1	1021.0	1020.0	1024.2	1017.0	1017.0	1016.0	1016.3		1020.6
12	12:01:30	1019.0	1020.1	1015.3	1020.2	1021.7	1021.0	1020.0		1018.0	1017.0	1016.0	1016.6		1020.9
13	12:02:00	1019.0	1019.2	1016.1	1021.0	1021.3	1020.0	1019.0	1031.1	1017.0	1017.0	1016.0	1016.5		1020.9
14	12:02:30	1018.0	1019.9	1015.3	1021.7	1021.9	1019.0	1020.0		1018.0	1017.0	1018.0	1016.9		1021.3
15	12:03:00	1015.0	1019.4	1014.4	1020.2	1021.1	1019.0	1020.0	1035.8	1018.0	1017.0	1017.0	1016.8		1021.3
16	12:03:30		1019.7	1015.3	1020.2	1021.5	1019.0	1020.0		1018.0	1017.0	1018.0	1016.9		1021.6
17	12:04:00	1021.0	1019.6	1014.4	1018.7	1021.7	1019.0	1019.0	1023.1	1017.0	1017.0	1016.0	1015.9		1020.8
18	12:04:30	1024.0	1019.8	1016.1	1021.0	1020.9	1023.0	1021.0		1018.0	1019.0	1017.0	1017.8		1022.3
19	12:05:00		1019.9	1016.9	1022.5	1021.6	1023.0	1022.0	1043.9	1019.0	1019.0	1018.0	1018.3		1022.4
20	12:05:30	1016.0	1019.9	1014.4	1018.0	1021.8	1019.0	1019.0		1017.0	1017.0	1016.0	1016.0		1020.5
21	12:06:00	1016.0	1020.3	1016.9	1027.0	1022.1	1020.0	1022.0	1043.8	1019.0	1018.0	1019.0	1018.3		1022.9
1		1.0014	.9993	.9963	1.0030	1.0014	1.0023	1.0004	1.0086	.9974	.9984	.9965	.9970		1.0007
2		1.0033	.9991	.9962	1.0023	1.0018	1.0042	1.0003		.9984	.9994	.9974	.9978		1.0015
3		1.0023	.9994	.9953	1.0015	1.0011	1.0023	.9994	1.0125	.9974	.9974	.9964	.9969		1.0007
4		.9984	1.0002	.9973	1.0035	1.0025	1.0033	1.0013		.9994	.9984	.9974	.9980		1.0018
5		1.0012	.9998	.9956	1.0012	1.0018	1.0021	1.0002	1.0087	.9992	.9972	.9972	.9973		1.0013
6		.9969	.9996	.9977	1.0030	1.0025	1.0028	1.0018		.9989	.9989	.9979	.9986		1.0025
7		.9975	.9997	.9964	1.0034	1.0016	1.0004	1.0004	1.0119	.9975	.9975	.9975	.9972		1.0015
8			1.0004	.9971	1.0028	1.0023	1.0006	1.0016		.9996	.9977	.9986	.9983		1.0024
9		.9984	1.0003	.9965	1.0028	1.0016	1.0013	1.0004	1.0097	.9974	.9984	.9974	.9971		1.0011
10		1.0006	1.0004	.9968	1.0031	1.0022	1.0036	1.0006		.9987	.9987	.9967	.9978		1.0022
11		1.0007	1.0002	.9961	1.0053	1.0018	1.0017	1.0007	1.0048	.9978	.9978	.9968	.9971		1.0013
12		1.0003	1.0014	.9967	1.0015	1.0030	1.0023	1.0013		.9993	.9984	.9974	.9980		1.0022
13		.9996	.9998	.9968	1.0016	1.0019	1.0006	.9996	1.0115	.9977	.9977	.9967	.9972		1.0015
14		.9992	1.0010	.9965	1.0028	1.0030	1.0002	1.0011		.9992	.9982	.9992	.9981		1.0024
15		.9956	.9999	.9950	1.0007	1.0016	.9995	1.0005	1.0160	.9985	.9975	.9975	.9974		1.0018
16			1.0009	.9966	1.0014	1.0027	1.0002	1.0012		.9992	.9983	.9992	.9982		1.0028
17		1.0024	1.0010	.9959	1.0001	1.0031	1.0004	1.0004	1.0044	.9984	.9984	.9975	.9974		1.0022
18		1.0040	.9999	.9963	1.0011	1.0010	1.0030	1.0011		.9981	.9991	.9971	.9979		1.0023
19			.9980	.9950	1.0005	.9996	1.0010	1.0000	1.0215	.9971	.9971	.9961	.9964		1.0004
20		.9982	1.0020	.9966	1.0002	1.0039	1.0012	1.0012		.9992	.9992	.9982	.9982		1.0026
21		.9944	.9986	.9953	1.0052	1.0004	.9983	1.0003	1.0216	.9973	.9963	.9973	.9966		1.0011
MEAN		.9997	1.0000	.9963	1.0022	1.0019	1.0015	1.0007	1.0119	.9984	.9981	.9974	.9975		1.0017
S.D.		.0026	.0009	.0007	.0015	.0010	.0015	.0006	.0058	.0008	.0008	.0008	.0006		.0007

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----- 27	MEAN	S.D.
1019.0	1021.61	3.408
1020.0	1021.66	2.505
1019.0	1021.66	4.347
1018.0	1019.63	2.291
1017.0	1019.81	3.324
1019.0	1020.14	2.240
1018.0	1020.56	4.105
1016.0	1017.38	1.993
1017.0	1019.63	3.497
1018.0	1019.34	2.341
1017.0	1019.26	2.958
1017.0	1018.68	2.134
1017.0	1019.36	3.865
1018.0	1018.85	2.012
1018.0	1019.50	5.137
1018.0	1018.77	1.916
1017.0	1018.59	2.499
1019.0	1019.92	2.382
1019.0	1021.96	6.882
1017.0	1017.82	2.118
1019.0	1021.74	6.937

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TABLE 4-4

FOURTH INTERCOMPARISON - NOVEMBER 17, 1980
 RUN 4: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	13:10:00	1013.0	1008.0	1004.6	1011.0	1010.2	1011.0	1010.0	1021.6	1007.0	1008.0	1007.0	1006.2		1008.8
2	13:10:30	1010.0	1008.2	1003.8	1011.8	1010.3	1009.0	1010.0		1007.0	1007.0	1007.0	1005.6		1008.4
3	13:11:00	1008.0	1006.9	1002.1	1011.0	1008.7	1007.0	1008.0	1021.6	1006.0	1004.0	1007.0	1004.2		1006.9
4	13:11:30	1002.0	1002.3	998.7	1005.0	1004.8	1005.0	1005.0		1002.0	1001.0	1002.0	1000.8		1003.5
5	13:12:00	1005.0	1000.6	997.0	1002.7	1003.1	1003.0	1003.0	1014.2	1000.0	999.0	1000.0	999.0		1001.4
6	13:12:30	1003.0	1001.7	997.0	1005.7	1003.7	1003.0	1003.0		1001.0	1000.0	1001.0	999.0		1001.9
7	13:13:00	1006.0	1003.2	998.7	1004.2	1005.2	1005.0	1005.0	1017.4	1002.0	1001.0	1002.0	1000.1		1003.2
8	13:13:30	1006.0	1003.2	998.7	1006.5	1005.4	1006.0	1005.0		1002.0	1001.0	1002.0	1000.4		1003.1
9	13:14:00	1003.0	1002.4	998.7	1003.5	1004.2	1004.0	1004.0	1010.9	1001.0	1000.5	1001.0	1000.1		1002.6
10	13:14:30	1001.0	1000.0	997.9	1003.5	1002.1	1002.0	1002.0		1000.0	998.0	1000.0	998.2		1001.2
11	13:15:00	1005.0	1002.5	997.0	997.4	1004.6	1003.0	1003.0	1007.8	1000.0	999.0	999.0	998.7		1001.7
12	13:15:30	1006.0	1001.7	997.9	1004.2	1004.2	1003.0	1004.0		1001.0	999.5	1000.0	999.4		1002.3
13	13:16:00	1001.0	1003.3	998.7	1005.0	1005.7	1003.0	1005.0	1009.6	1002.0	1001.0	1004.0	1000.3		1003.2
14	13:16:30		1003.4	1000.4	1006.5	1006.1	1003.0	1006.0		1003.0	1001.0	1004.0	1001.8		1005.0
15	13:17:00	1005.0	1004.2	1001.3	1004.2	1006.8	1004.0	1006.0		1004.0	1001.0	1004.0	1001.9		1005.0
16	13:17:30	1001.0	1004.9	1000.4	1006.5	1007.3	1004.0	1005.0		1004.0	1002.0	1004.0	1001.8		1005.1
17	13:18:00	1002.0	1004.9	1000.4	1010.3	1007.1	1004.0	1006.0	1013.6	1003.0	1002.0	1003.0	1001.8		1004.7
18	13:18:30	1006.0	1004.4	1000.4	1002.0	1006.3	1005.0	1006.0		1003.0	1001.0	1003.0	1001.8		1004.7
19	13:19:00	1001.0	1002.9	1000.4	1005.7	1005.2	1004.0	1006.0	1019.4	1003.0	1001.0	1004.0	1001.5		1004.6
20	13:19:30	1002.0	1003.7	1000.4	1006.5	1005.7	1004.0	1006.0		1003.0	1002.0	1004.0	1002.0		1005.0
21	13:20:00	1006.0	1003.3	999.6	1006.5	1005.0	1004.0	1005.0	1014.5	1002.0	1001.0	1002.0	1001.1		1004.2
1		1.0034	.9985	.9951	1.0015	1.0007	1.0015	1.0005	1.0120	.9975	.9985	.9975	.9967		.9993
2		1.0019	1.0002	.9958	1.0037	1.0022	1.0009	1.0019		.9990	.9990	.9990	.9976		1.0004
3		1.0004	.9993	.9946	1.0034	1.0011	.9994	1.0004	1.0139	.9984	.9964	.9994	.9966		.9993
4		.9994	.9997	.9961	1.0024	1.0022	1.0024	1.0024		.9994	.9984	.9994	.9982		1.0009
5		1.0030	.9986	.9951	1.0007	1.0011	1.0010	1.0010	1.0122	.9980	.9970	.9980	.9970		.9994
6		1.0015	1.0002	.9955	1.0042	1.0022	1.0015	1.0015		.9995	.9985	.9995	.9975		1.0004
7		1.0021	.9993	.9948	1.0003	1.0013	1.0011	1.0011	1.0135	.9981	.9971	.9981	.9962		.9993
8		1.0029	1.0001	.9956	1.0034	1.0023	1.0029	1.0019		.9989	.9979	.9989	.9973		1.0000
9		1.0004	.9998	.9961	1.0009	1.0016	1.0014	1.0014	1.0083	.9984	.9979	.9984	.9975		1.0000
10		1.0006	.9996	.9975	1.0031	1.0017	1.0016	1.0016		.9996	.9976	.9996	.9978		1.0008
11		1.0037	1.0012	.9957	.9961	1.0033	1.0017	1.0017	1.0065	.9987	.9977	.9977	.9974		1.0004
12		1.0042	.9999	.9961	1.0024	1.0024	1.0012	1.0022		.9992	.9977	.9982	.9976		1.0005
13		.9979	1.0002	.9956	1.0019	1.0026	.9999	1.0019	1.0065	.9989	.9979	1.0009	.9972		1.0001
14			.9998	.9968	1.0029	1.0025	.9994	1.0024		.9994	.9974	1.0004	.9982		1.0014
15		1.0011	1.0003	.9974	1.0003	1.0029	1.0001	1.0021		1.0001	.9971	1.0001	.9980		1.0011
16		.9972	1.0011	.9966	1.0027	1.0035	1.0002	1.0012		1.0002	.9982	1.0002	.9980		1.0013
17		.9973	1.0002	.9957	1.0056	1.0024	.9993	1.0013	1.0089	.9983	.9973	.9983	.9971		1.0000
18		1.0024	1.0008	.9968	.9984	1.0027	1.0014	1.0024		.9994	.9974	.9994	.9982		1.0011
19		.9966	.9985	.9960	1.0013	1.0008	.9996	1.0016	1.0150	.9986	.9966	.9996	.9971		1.0002
20		.9984	1.0001	.9968	1.0029	1.0021	1.0004	1.0024		.9994	.9984	1.0004	.9984		1.0014
21		1.0020	.9993	.9956	1.0025	1.0010	1.0000	1.0010	1.0104	.9980	.9970	.9980	.9971		1.0002
MEAN		1.0008	.9998	.9960	1.0019	1.0020	1.0008	1.0016	1.0107	.9989	.9977	.9991	.9975		1.0004
S.D.		.0023	.0007	.0008	.0021	.0008	.0010	.0006	.0031	.0007	.0007	.0010	.0006		.0007

27	MEAN	S.D.
1007.0	1009.53	4.137
1006.5	1008.05	2.190
1004.8	1007.59	4.607
1001.5	1002.58	1.965
999.4	1001.96	4.129
999.8	1001.52	2.265
1001.4	1003.89	4.431
1001.3	1003.12	2.483
1000.3	1002.59	2.944
999.2	1000.39	1.765
999.6	1001.31	3.160
1000.6	1001.83	2.368
1001.3	1003.08	2.740
1002.8	1003.58	2.004
1003.1	1003.88	1.714
1003.0	1003.77	2.067
1002.6	1004.67	3.618
1002.7	1003.56	1.978
1002.6	1004.38	4.684
1003.0	1003.64	1.814
1002.2	1004.03	3.627

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TABLE 4- 7

FOURTH INTERCOMPARISON - NOVEMBER 18, 1980
 RUN 7: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	10:45:00	968.0	968.0	964.5	970.4	970.4	970.0	969.3	982.3	967.0	968.0	968.0	966.4	966.7	969.3
2	10:45:30	972.0	968.7	965.4	969.7	971.2	971.0	969.5		967.0	969.0	968.0	966.5	966.7	969.4
3	10:46:00	972.0	968.9	965.4	969.7	970.9	972.0	970.5	985.7	967.0	969.5	969.0	967.3	967.7	970.2
4	10:46:30	972.0	968.7	965.4	969.7	971.1	970.0	970.3		967.0	969.0	969.0	966.9	966.6	969.8
5	10:47:00	973.0	969.3	965.4	965.9	971.5	971.0	970.4	973.2	967.0	969.0	969.0	966.8	966.6	969.9
6	10:47:30	973.0	969.5	966.2	970.4	972.2	970.0	970.8		968.0	969.0	970.0	967.0	967.5	970.2
7	10:48:00	973.0	970.4	966.2	970.4	972.9	971.0	971.2	969.2	968.0	970.0	970.0	967.7	968.5	970.9
8	10:48:30	972.0	970.5	967.1	970.4	973.2	971.0	971.8		968.0	970.0	971.0	968.3	968.4	971.3
9	10:49:00	975.0	971.1	967.9	971.2	973.3	972.0	972.5	974.1	969.0	971.0	971.0	968.5	968.4	971.7
10	10:49:30	972.5	970.8	967.9	971.9	973.2	972.0	972.3		969.0	971.0	971.0	968.7	968.4	971.9
11	10:50:00	973.0	970.2	966.2	969.7	972.4	970.0	971.4	982.3	968.0	969.0	971.0	967.4	967.3	970.6
12	10:50:30	974.0	970.7	967.9	970.4	972.7	971.0	972.6		969.0	970.0	972.0	968.4	968.3	971.7
13	10:51:00	974.0	971.3	967.9	968.9	973.4	972.0	972.1	981.3	969.0	971.0	971.0	968.8	968.2	972.0
14	10:51:30	975.0	971.5	967.9	972.7	972.9	973.0	971.9		969.0	970.0	971.0	968.2	969.2	971.4
15	10:52:00	976.0	971.4	968.8	972.7	973.4	973.0	972.8	978.2	970.0	971.0	972.0	967.3	969.1	972.6
16	10:52:30	976.0	971.5	967.9	973.4	973.8	972.0	973.0		970.0	971.0	972.0	969.3	969.1	972.3
17	10:53:00	972.0	971.9	967.9	971.9	973.5	973.0	973.0	970.7	970.0	971.0	972.0	969.3	969.1	972.3
18	10:53:30	969.0	973.7	970.5	968.9	975.8	974.0	974.2		971.0	972.0	973.0	970.6	971.0	973.9
19	10:54:00	978.5	974.7	972.1	976.4	976.4	976.0	975.8	962.9	972.0	974.0	975.0	972.1	972.0	975.4
20	10:54:30	979.0	975.2	971.3	971.2	977.2	977.0	976.2		973.0	974.0	975.0	972.2	971.9	975.6
21	10:55:00	979.0	975.0	972.1	974.2	976.9	976.0	975.7	980.4	973.0	974.0	975.0	972.2	971.9	975.4
1		.9989	.9989	.9953	1.0014	1.0014	1.0010	1.0002	1.0137	.9979	.9989	.9989	.9973	.9976	1.0002
2		1.0034	1.0000	.9966	1.0010	1.0026	1.0024	1.0008		.9982	1.0003	.9993	.9977	.9979	1.0007
3		1.0018	.9986	.9950	.9994	1.0006	1.0018	1.0002	1.0159	.9966	.9992	.9987	.9969	.9973	.9999
4		1.0033	.9999	.9965	1.0009	1.0023	1.0012	1.0015		.9981	1.0002	1.0002	.9980	.9977	1.0010
5		1.0040	1.0002	.9962	.9967	1.0025	1.0020	1.0013	1.0042	.9978	.9999	.9999	.9976	.9974	1.0008
6		1.0037	1.0001	.9966	1.0010	1.0028	1.0006	1.0014		.9985	.9995	1.0006	.9975	.9980	1.0008
7		1.0032	1.0005	.9962	1.0005	1.0031	1.0011	1.0013	.9993	.9980	1.0001	1.0001	.9977	.9986	1.0010
8		1.0019	1.0003	.9968	1.0002	1.0031	1.0008	1.0017		.9978	.9998	1.0008	.9981	.9982	1.0012
9		1.0040	1.0000	.9967	1.0001	1.0023	1.0009	1.0014	1.0031	.9978	.9999	.9999	.9973	.9972	1.0006
10		1.0018	1.0000	.9970	1.0012	1.0025	1.0013	1.0016		.9982	1.0002	1.0002	.9979	.9976	1.0012
11		1.0026	.9997	.9956	.9992	1.0020	.9995	1.0009	1.0122	.9974	.9985	1.0005	.9968	.9967	1.0001
12		1.0035	1.0001	.9972	.9998	1.0021	1.0004	1.0020		.9983	.9994	1.0014	.9977	.9976	1.0011
13		1.0027	.9999	.9964	.9974	1.0021	1.0006	1.0007	1.0102	.9975	.9996	.9996	.9973	.9967	1.0006
14		1.0042	1.0006	.9968	1.0018	1.0020	1.0021	1.0010		.9980	.9990	1.0000	.9972	.9982	1.0004
15		1.0042	.9995	.9968	1.0008	1.0015	1.0011	1.0009	1.0064	.9980	.9990	1.0001	.9952	.9971	1.0007
16		1.0046	.9999	.9962	1.0019	1.0023	1.0005	1.0015		.9984	.9994	1.0005	.9977	.9975	1.0008
17		1.0003	1.0007	.9966	1.0007	1.0023	1.0018	1.0018	.9995	.9987	.9998	1.0008	.9980	.9978	1.0011
18		.9968	1.0016	.9983	.9967	1.0038	1.0019	1.0021		.9988	.9999	1.0009	.9984	.9988	1.0018
19		1.0048	1.0009	.9982	1.0027	1.0027	1.0023	1.0020	.9888	.9981	1.0002	1.0012	.9982	.9981	1.0016
20		1.0047	1.0008	.9968	.9967	1.0028	1.0026	1.0018		.9985	.9995	1.0005	.9977	.9974	1.0012
21		1.0041	1.0000	.9971	.9992	1.0020	1.0011	1.0007	1.0056	.9980	.9990	1.0000	.9972	.9968	1.0004
MEAN		1.0028	1.0001	.9966	1.0000	1.0023	1.0013	1.0013	1.0053	.9980	.9996	1.0002	.9975	.9976	1.0008
S.D.		.0020	.0007	.0008	.0018	.0007	.0008	.0006	.0078	.0005	.0005	.0007	.0007	.0006	.0005

27	MEAN	S.D.
967.6	969.06	4.002
967.8	968.71	1.933
968.5	970.29	4.644
968.2	968.84	1.855
968.5	969.10	2.450
968.5	969.45	1.914
969.0	969.89	1.860
969.5	970.18	1.737
970.0	971.11	2.106
970.1	970.76	1.690
968.8	970.49	3.788
969.9	970.61	1.843
970.1	971.40	3.309
969.8	970.96	2.054
970.7	971.93	2.760
970.4	971.55	2.144
970.8	971.23	1.604
972.1	972.12	2.064
973.8	973.81	3.589
973.7	974.46	2.401
973.8	974.97	2.440

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TABLE 4- 8

FOURTH INTERCOMPARISON - NOVEMBER 18, 1980
 RUN 8: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	11:10:00	982.0	980.6	976.6	984.2	981.9	981.0	982.0	982.9	978.0	981.0	979.0	978.5	981.0	981.8
2	11:10:30	981.0	980.3	975.8	984.2	981.5	980.0	979.9		976.0	979.0	978.0	977.3	980.0	980.1
3	11:11:00	981.0	981.1	976.6	983.5	982.7	981.0	980.5	977.0	976.0	979.5	978.0	977.8	980.0	980.8
4	11:11:30	983.0	982.3	977.4	985.0	983.8	981.0	981.2		976.0	980.5	979.0	978.5	981.0	981.6
5	11:12:00	984.0	982.8	979.1	985.0	984.4	982.0	982.3	990.1	980.0	981.5	981.0	979.7	982.0	982.6
6	11:12:30	985.0	983.7	980.0	985.0	985.2	984.0	983.7		980.0	982.0	981.0	981.0	983.0	983.7
7	11:13:00	985.0	983.7	979.1	985.0	984.9	983.0	983.6	987.6	980.0	982.0	981.0	980.3	983.0	983.2
8	11:13:30	985.0	983.7	979.1	980.5	984.7	983.0	983.0		980.0	982.0	981.0	980.3	982.0	983.1
9	11:14:00	985.0	982.8	979.1	982.7	984.4	983.0	982.9	991.7	980.0	981.0	980.0	979.7	982.0	982.7
10	11:14:30	983.0	984.1	980.0	986.5	984.8	982.0	983.6		980.0	982.0	981.0	980.5	983.0	983.5
11	11:15:00	987.0	985.0	980.8	985.8	986.2	984.0	983.9	997.0	981.0	983.0	981.0	981.2	984.0	984.2
12	11:15:30	986.0	984.4	980.8	988.9	986.3	985.0	984.0		981.0	983.0	982.0	981.7	984.0	984.7
13	11:16:00	973.0	984.7	980.8	987.3	986.8	985.0	985.2	1009.2	982.0	983.0	983.0	982.3	985.0	985.3
14	11:16:30	985.0	985.7	981.7	988.0	986.9	984.0	985.7		982.0	983.0	983.0	982.3	985.0	985.5
15	11:17:00	986.0	985.7	981.7	988.0	987.4	984.0	985.7	1005.4	983.0	984.5	984.0	982.5	986.0	985.9
16	11:17:30	987.0	986.4	981.7	987.3	990.4	985.0	986.7		983.0	985.0	984.0	983.1	986.0	986.2
17	11:18:00	987.0	985.4	980.8	987.3	986.4	984.0	985.7	987.3	982.0	984.0	983.0	981.9	985.0	985.0
18	11:18:30	986.0	985.0	980.8	986.5	986.2	983.0	985.1		982.0	983.5	983.0	981.4	985.0	984.6
19	11:19:00	986.5	983.7	980.0	987.3	985.1	981.0	984.5	993.9	981.0	983.0	983.0	980.6	984.0	983.9
20	11:19:30	986.0	984.4	980.0	984.2	985.0	981.0	984.3		981.0	983.0	982.0	980.7	984.0	983.8
21	11:20:00	988.0	985.7	981.7	985.8	986.8	984.0	985.4	992.3	982.0	984.0	983.0	982.1	985.0	985.2
1		1.0013	.9999	.9958	1.0035	1.0012	1.0003	1.0013	1.0022	.9972	1.0003	.9982	.9977	1.0003	1.0011
2		1.0016	1.0009	.9963	1.0049	1.0021	1.0006	1.0005		.9965	.9996	.9985	.9978	1.0006	1.0007
3		1.0014	1.0015	.9969	1.0039	1.0031	1.0014	1.0008	.9973	.9963	.9998	.9983	.9981	1.0003	1.0012
4		1.0023	1.0016	.9966	1.0043	1.0031	1.0002	1.0004		.9951	.9997	.9982	.9977	1.0002	1.0009
5		1.0015	1.0002	.9965	1.0025	1.0019	.9994	1.0002	1.0077	.9974	.9989	.9984	.9971	.9994	1.0000
6		1.0022	1.0009	.9971	1.0022	1.0024	1.0012	1.0009		.9971	.9992	.9981	.9981	1.0002	1.0009
7		1.0022	1.0008	.9961	1.0022	1.0020	1.0001	1.0007	1.0048	.9971	.9991	.9981	.9974	1.0001	1.0003
8		1.0030	1.0016	.9970	.9984	1.0027	1.0009	1.0009		.9979	.9999	.9989	.9982	.9999	1.0010
9		1.0025	1.0003	.9965	1.0002	1.0019	1.0005	1.0004	1.0093	.9974	.9984	.9974	.9971	.9994	1.0002
10		1.0004	1.0016	.9974	1.0040	1.0023	.9994	1.0010		.9974	.9994	.9984	.9979	1.0004	1.0009
11		1.0026	1.0006	.9963	1.0014	1.0018	.9996	.9995	1.0128	.9965	.9985	.9965	.9967	.9996	.9998
12		1.0021	1.0005	.9968	1.0051	1.0024	1.0011	1.0001		.9970	.9991	.9980	.9977	1.0001	1.0008
13		.9877	.9996	.9957	1.0023	1.0017	.9999	1.0001	1.0245	.9969	.9979	.9979	.9972	.9999	1.0002
14		1.0006	1.0013	.9972	1.0036	1.0025	.9996	1.0013		.9975	.9986	.9986	.9979	1.0006	1.0011
15		.9997	.9994	.9954	1.0017	1.0011	.9977	.9994	1.0194	.9967	.9982	.9977	.9962	.9997	.9996
16		1.0015	1.0009	.9962	1.0018	1.0050	.9995	1.0012		.9975	.9995	.9985	.9976	1.0005	1.0007
17		1.0025	1.0008	.9962	1.0028	1.0019	.9994	1.0012	1.0028	.9974	.9994	.9984	.9973	1.0004	1.0004
18		1.0021	1.0011	.9968	1.0026	1.0023	.9990	1.0012		.9980	.9995	.9990	.9974	1.0011	1.0007
19		1.0025	.9997	.9959	1.0034	1.0011	.9970	1.0005	1.0101	.9970	.9990	.9990	.9966	1.0000	.9999
20		1.0031	1.0014	.9970	1.0012	1.0020	.9980	1.0013		.9980	1.0000	.9990	.9977	1.0010	1.0008
21		1.0031	1.0007	.9967	1.0008	1.0019	.9990	1.0004	1.0074	.9970	.9990	.9980	.9971	1.0000	1.0002
MEAN		1.0012	1.0007	.9965	1.0025	1.0022	.9997	1.0006	1.0089	.9971	.9992	.9982	.9974	1.0002	1.0005
S.D.		.0032	.0007	.0005	.0016	.0008	.0011	.0006	.0078	.0007	.0006	.0006	.0005	.0005	.0005

----- 27	MEAN	S.D.
980.4	980.73	1.988
978.9	979.43	2.211
979.6	979.67	2.201
980.4	980.76	2.449
981.4	982.56	2.681
982.3	982.83	1.806
981.9	982.89	2.255
981.9	982.09	1.772
981.2	982.55	3.061
982.0	982.57	1.881
982.5	984.44	3.996
983.2	983.93	2.237
983.6	985.08	7.475
984.0	984.41	1.886
984.4	986.28	5.567
984.9	985.48	2.185
983.7	984.57	2.041
983.2	983.95	1.808
982.4	983.99	3.452
982.4	982.99	1.827
983.6	984.97	2.714

.9997
.9995
.9999
.9996
.9988
.9995
.9990
.9998
.9986
.9994
.9980
.9993
.9985
.9996
.9981
.9994
.9991
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.9994
.9986

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.0006

TABLE : 4- 9

FOURTH INTERCOMPARISON - NOVEMBER 18, 1980
 RUN 9: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	12:20:00	991.0	989.3	985.8	992.0	991.7	991.0	990.9	996.0	988.0	990.0	991.0	987.4	987.0	990.6
2	12:20:30	994.0	990.3	986.6	990.4	992.3	991.0	990.4		988.0	991.0	990.0	987.4	988.0	990.7
3	12:21:00	989.5	990.6	986.6	988.2	993.1	991.0	991.2	990.1	989.0	990.0	991.0	987.9	989.0	991.2
4	12:21:30	994.0	991.8	987.5	992.0	994.0	992.0	991.9		990.0	991.0	991.0	988.4	990.0	991.7
5	12:22:00	996.0	992.3	987.5	988.9	994.1	992.0	992.6	999.4	990.0	992.0	992.0	988.8	990.0	992.0
6	12:22:30	997.0	991.5	987.5	994.2	993.5	995.0	992.2		990.0	993.0	991.0	989.1	990.0	991.8
7	12:23:00	997.0	992.2	987.5	992.7	994.4	995.0	991.5	998.5	989.0	993.0	989.0	988.7	990.0	991.0
8	12:23:30	997.0	991.6	987.5	992.7	993.9	995.0	991.5		989.0	993.0	989.0	988.7	990.0	991.0
9	12:24:00	997.0	991.6	988.3	994.2	993.6	993.0	991.8	1002.5	989.0	991.5	989.0	988.8	990.0	991.2
10	12:24:30	990.0	990.6	987.5	994.2	993.2	992.0	991.8		989.0	991.0	990.0	988.5	988.0	990.7
11	12:25:00	991.5	991.0	986.6	995.0	993.0	991.0	991.0		988.0	991.0	990.0	988.2	988.0	990.3
12	12:25:30	995.0	991.5	986.6	992.7	993.6	992.0	991.4		989.0	991.0	990.0	988.1	988.0	990.0
13	12:26:00	996.0	990.9	986.6	992.7	993.0	993.0	991.0	990.7	988.0	992.0	990.0	988.0	988.0	990.0
14	12:26:30	995.0	990.4	986.6	992.7	993.0	992.0	990.6		988.0	992.0	989.0	987.5	988.0	989.5
15	12:27:00	995.0	990.8	986.6	991.2	992.7	992.0	990.6	992.3	985.0	991.0	988.0	987.3	987.0	989.3
16	12:27:30	994.0	990.8	987.5	990.4	993.0	994.0	990.8		987.0	992.0	989.0	987.8	989.0	989.7
17	12:28:00	996.0	990.8	986.6	990.4	993.0	991.0	990.8	999.8	988.0	992.0	989.0	987.1	988.0	989.0
18	12:28:30	996.0	991.1	986.6	989.7	993.1	992.0	990.2		987.0	992.0	988.0	987.1	988.0	988.8
19	12:29:00	997.0	991.0	986.6	991.2	993.2	993.0	990.5	999.1	988.0	992.0	988.0	987.4	988.0	989.1
20	12:29:30	997.5	991.7	987.5	995.0	993.6	994.0	999.1		988.0	992.0	988.0	988.1	989.0	989.6
21	12:30:00	998.0	991.2	988.3	994.2	993.6	995.0	991.9	1007.7	989.0	993.0	989.0	988.1	989.0	989.8
1		1.0010	.9993	.9957	1.0020	1.0017	1.0010	1.0009	1.0060	.9980	1.0000	1.0010	.9974	.9969	1.0006
2		1.0041	1.0004	.9967	1.0005	1.0024	1.0011	1.0005		.9981	1.0011	1.0001	.9975	.9981	1.0008
3		.9996	1.0008	.9967	.9983	1.0033	1.0012	1.0014	1.0003	.9991	1.0002	1.0012	.9980	.9991	1.0014
4		1.0029	1.0007	.9964	1.0009	1.0029	1.0009	1.0008		.9989	.9999	.9999	.9973	.9989	1.0006
5		1.0042	1.0004	.9956	.9970	1.0022	1.0001	1.0007	1.0076	.9981	1.0001	1.0001	.9969	.9981	1.0001
6		1.0052	.9996	.9956	1.0023	1.0016	1.0032	1.0003		.9981	1.0011	.9991	.9972	.9981	.9999
7		1.0051	1.0002	.9955	1.0007	1.0024	1.0031	.9995	1.0066	.9970	1.0010	.9970	.9967	.9980	.9990
8		1.0056	1.0002	.9960	1.0013	1.0025	1.0036	1.0001		.9975	1.0016	.9975	.9972	.9986	.9996
9		1.0049	.9994	.9961	1.0021	1.0015	1.0009	.9997	1.0104	.9968	.9993	.9968	.9966	.9978	.9990
10		.9995	1.0001	.9970	1.0037	1.0027	1.0015	1.0013		.9985	1.0005	.9995	.9980	.9975	1.0002
11		1.0012	1.0007	.9963	1.0048	1.0027	1.0007	1.0007		.9977	1.0007	.9997	.9979	.9977	1.0000
12		1.0044	1.0009	.9959	1.0021	1.0030	1.0014	1.0008		.9984	1.0004	.9994	.9974	.9973	.9994
13		1.0054	1.0003	.9959	1.0021	1.0024	1.0024	1.0004	1.0001	.9973	1.0014	.9994	.9973	.9973	.9994
14		1.0048	1.0001	.9963	1.0025	1.0028	1.0017	1.0003		.9977	1.0017	.9987	.9972	.9977	.9992
15		1.0052	1.0010	.9967	1.0014	1.0029	1.0022	1.0008	1.0025	.9951	1.0012	.9981	.9974	.9971	.9994
16		1.0037	1.0005	.9971	1.0001	1.0027	1.0037	1.0005		.9966	1.0017	.9987	.9974	.9987	.9994
17		1.0053	1.0001	.9958	.9997	1.0023	1.0003	1.0001	1.0092	.9972	1.0013	.9983	.9963	.9972	.9983
18		1.0062	1.0012	.9967	.9998	1.0032	1.0021	1.0003		.9971	1.0021	.9981	.9972	.9981	.9989
19		1.0062	1.0001	.9957	1.0003	1.0023	1.0021	.9996	1.0083	.9971	1.0011	.9971	.9965	.9971	.9982
20		1.0059	1.0001	.9958	1.0034	1.0020	1.0024	1.0075		.9963	1.0004	.9963	.9964	.9973	.9980
21		1.0055	.9987	.9958	1.0017	1.0011	1.0025	.9994	1.0153	.9965	1.0005	.9965	.9956	.9965	.9973
MEAN		1.0041	1.0002	.9962	1.0013	1.0024	1.0018	1.0007	1.0066	.9975	1.0008	.9987	.9971	.9978	.9995
S.D.		.0021	.0006	.0005	.0018	.0006	.0010	.0016	.0047	.0009	.0007	.0014	.0006	.0007	.0010

27	MEAN	S.D.	
988.6	990.02	2.491	
988.5	989.90	2.012	
989.3	989.85	2.614	
990.2	991.11	2.828	
990.5	991.87	2.997	
990.4	991.87	2.518	
990.1	991.97	3.180	
990.2	991.44	2.666	
990.7	992.15	3.704	
990.4	990.49	1.906	
989.5	990.29	2.187	
989.9	990.63	2.306	
989.6	990.63	2.468	
989.5	990.27	2.419	
989.0	989.85	2.713	
989.7	990.34	2.272	
989.5	990.73	3.481	
989.0	989.90	2.692	
989.3	990.89	3.560	
989.7	991.63	3.741	
989.9	992.51	5.083	

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TABLE 4-10

FOURTH INTERCOMPARISON - NOVEMBER 18, 1980
 RUN 10: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	12:55:00	990.0	987.6	983.3	986.9	989.9	988.0	988.0		986.0	987.5	987.0	984.9	986.0	988.1
2	12:55:30	991.0	987.0	983.3	989.2	989.3	987.0	988.0		986.0	986.5	988.0	984.7	985.0	988.2
3	12:56:00	989.0	983.9	979.9	985.4	986.2	984.0	985.1	994.1	983.0	983.5	985.0	982.1	983.0	985.7
4	12:56:30	987.5	983.6	979.9	981.7	985.7	984.0	983.7		982.0	983.5	983.0	980.3	982.0	984.0
5	12:57:00	987.0	981.8	978.2	983.9	984.2	985.0	983.1	1000.4	981.0	983.5	981.0	980.1	982.0	983.5
6	12:57:30	984.5	982.1	978.2	983.9	984.8	983.0	982.3		980.0	981.5	981.0	979.5	981.0	982.8
7	12:58:00	986.0	983.0	979.0	985.4	985.3	982.0	983.3	967.6	981.0	981.0	983.0	980.1	981.0	983.7
8	12:58:30	985.0	982.1	979.0	982.4	985.1	982.0	983.4		982.0	980.5	982.0	980.0	981.0	983.6
9	12:59:00	982.0	982.7	979.0	983.2	985.3	984.0	983.9	1019.1	982.0	982.5	983.0	980.8	982.0	984.1
10	12:59:30	981.0	981.7	978.2	982.4	984.6	981.0	982.8		982.0	980.5	983.0	979.3	981.0	982.9
11	13:00:00	981.0	982.6	979.0	983.2	985.3	981.0	983.6	955.4	983.0	980.5	984.0	979.9	981.0	983.6
12	13:00:30	984.0	982.3	978.2	982.4	984.6	983.0	983.6		982.0	982.0	984.0	980.1	981.0	983.8
13	13:01:00	980.0	982.3	978.2	981.7	984.6	982.0	983.1	978.5	982.0	982.5	983.0	979.8	981.0	983.4
14	13:01:30	983.0	981.9	978.2	981.7	984.5	982.0	983.6		983.0	981.5	984.0	980.0	981.0	983.6
15	13:02:00	984.0	982.1	978.2	983.2	985.0	983.0	982.9	1000.0	982.0	981.5	983.0	979.5	981.0	983.1
16	13:02:30	985.0	982.5	978.2	983.2	984.8	985.0	982.9		982.0	982.5	983.0	979.5	981.0	983.0
17	13:03:00	986.0	982.4	978.2	984.7	984.7	986.0	983.2	998.9	982.0	982.5	983.0	979.8	981.0	983.1
18	13:03:30	983.0	981.8	978.2	982.4	984.7	986.0	982.7		981.0	981.5	982.0	979.2	980.0	982.7
19	13:04:00	983.0	981.7	978.2	983.9	984.3	983.0	982.7	1005.6	982.0	981.5	983.0	979.2	980.0	983.1
20	13:04:30	983.0	981.5	978.2	983.9	983.8	983.0	982.4		981.0	980.5	982.0	979.0	980.0	982.6
21	13:05:00	984.0	981.2	977.3	983.9	983.2	982.0	981.7	969.2	981.0	980.5	982.0	978.2	980.0	982.0
1		1.0029	1.0005	.9961	.9998	1.0028	1.0009	1.0009		.9988	1.0004	.9999	.9977	.9988	1.0010
2		1.0039	.9999	.9961	1.0021	1.0022	.9999	1.0009		.9989	.9994	1.0009	.9975	.9978	1.0011
3		1.0042	.9990	.9949	1.0005	1.0013	.9991	1.0002	1.0093	.9981	.9986	1.0001	.9972	.9981	1.0008
4		1.0045	1.0005	.9968	.9986	1.0027	1.0009	1.0006		.9989	1.0004	.9999	.9972	.9989	1.0009
5		1.0033	.9980	.9943	1.0001	1.0004	1.0013	.9993	1.0169	.9972	.9997	.9972	.9963	.9982	.9997
6		1.0027	1.0002	.9962	1.0020	1.0030	1.0011	1.0004		.9981	.9996	.9991	.9976	.9991	1.0009
7		1.0045	1.0015	.9974	1.0039	1.0038	1.0004	1.0018	.9858	.9994	.9994	1.0015	.9985	.9994	1.0022
8		1.0029	.9999	.9968	1.0002	1.0030	.9998	1.0013		.9998	.9983	.9998	.9978	.9988	1.0015
9		.9968	.9976	.9938	.9981	1.0002	.9989	.9988	1.0345	.9968	.9973	.9979	.9956	.9968	.9990
10		.9994	1.0001	.9966	1.0008	1.0031	.9994	1.0013		1.0004	.9989	1.0015	.9977	.9994	1.0014
11		1.0007	1.0023	.9986	1.0029	1.0050	1.0007	1.0033	.9745	1.0027	1.0001	1.0037	.9995	1.0007	1.0033
12		1.0017	.9999	.9957	1.0000	1.0023	1.0006	1.0012		.9996	.9996	1.0017	.9977	.9986	1.0014
13		.9984	1.0007	.9965	1.0001	1.0031	1.0004	1.0015	.9968	1.0004	1.0009	1.0014	.9982	.9994	1.0018
14		1.0009	.9998	.9960	.9996	1.0024	.9999	1.0015		1.0009	.9994	1.0019	.9978	.9988	1.0015
15		1.0007	.9988	.9948	.9999	1.0017	.9997	.9996	1.0170	.9987	.9981	.9997	.9961	.9976	.9998
16		1.0026	1.0001	.9957	1.0008	1.0024	1.0026	1.0005		.9996	1.0001	1.0006	.9970	.9985	1.0006
17		1.0022	.9986	.9943	1.0009	1.0009	1.0022	.9994	1.0153	.9982	.9987	.9992	.9959	.9971	.9993
18		1.0011	.9999	.9962	1.0005	1.0028	1.0042	1.0008		.9991	.9996	1.0001	.9972	.9981	1.0008
19		.9995	.9982	.9946	1.0004	1.0008	.9995	.9992	1.0225	.9985	.9980	.9995	.9956	.9964	.9996
20		1.0015	.9999	.9966	1.0024	1.0023	1.0015	1.0008		.9994	.9989	1.0004	.9974	.9984	1.0010
21		1.0036	1.0008	.9968	1.0035	1.0028	1.0016	1.0013	.9885	1.0006	1.0001	1.0016	.9977	.9996	1.0016
MEAN		1.0018	.9998	.9959	1.0008	1.0023	1.0007	1.0007	1.0061	.9992	.9993	1.0004	.9973	.9985	1.0009
S.D.		.0021	.0011	.0012	.0015	.0011	.0013	.0010	.0189	.0013	.0009	.0015	.0010	.0010	.0010

27	MEAN	S.D.
986.7	987.14	1.780
986.6	987.13	2.033
983.6	984.90	3.269
982.2	983.08	1.996
981.8	983.77	5.071
981.9	981.89	1.886
982.2	981.57	4.353
982.3	982.17	1.737
983.1	985.11	9.520
981.6	981.57	1.618
982.3	980.36	7.115
982.3	982.38	1.731
981.9	981.60	1.803
981.9	982.14	1.685
981.3	983.32	4.919
981.4	982.43	1.963
981.6	983.81	4.688
981.6	981.91	2.020
981.2	983.49	6.349
981.1	981.57	1.722
980.3	980.43	3.620

.9996
 .9995
 .9987
 .9991
 .9980
 1.0000
 1.0006
 1.0001
 .9980
 1.0000
 1.0020
 .9999
 1.0003
 .9998
 .9979
 .9990
 .9978
 .9997
 .9977
 .9995
 .9999

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 .0011

TABLE 4-11

FOURTH INTERCOMPARISON - NOVEMBER 18, 1980
 RUN 11: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	13:16:00	971.0	973.1	968.9	974.5	976.2	975.0	974.0	974.5	973.0	973.0	972.0	971.2	972.0	975.3
2	13:16:30	978.0	975.3	970.6	974.5	977.5	976.0	975.3		974.0	974.5	974.0	972.5	973.0	976.6
3	13:17:00	979.0	974.4	970.6	976.7	977.2	977.0	975.2	976.1	974.0	976.0	973.0	972.8	974.0	976.4
4	13:17:30	972.0	973.4	969.8	971.4	976.2	975.0	974.0		973.0	974.0	972.0	971.2	973.0	975.1
5	13:18:00	975.0	972.2	968.1	970.7	974.7	974.0	973.7	985.1	972.0	973.0	971.0	970.6	972.0	974.9
6	13:18:30	975.0	970.8	967.2	972.2	973.6	972.0	971.4		970.0	971.0	969.0	968.6	969.0	972.6
7	13:19:00	976.0	972.0	968.1	972.2	974.8	974.0	971.7	975.1	970.0	971.0	970.0	969.6	970.0	973.5
8	13:19:30	977.0	972.4	968.1	973.7	974.4	974.0	972.2		970.0	972.0	969.0	969.6	971.0	973.6
9	13:20:00	975.0	967.7	964.7	979.2	970.5	972.0	970.1		969.0	969.0	967.0	967.1	969.0	970.8
10	13:20:30	968.0	962.6	959.6	962.4	965.4	966.0	964.7		963.0	962.0	962.0	961.3	962.0	965.2
11	13:21:00	967.0	963.6	959.6	964.6	966.0	968.0	964.5		963.0	961.0	961.0	961.3	962.0	965.1
12	13:21:30	971.0	967.7	964.7	965.4	970.5	971.0	968.0		966.0	966.5	965.0	965.7	966.0	969.5
13	13:22:00	974.0	969.7	966.4	972.2	972.7	972.0	970.0	967.3	968.0	969.0	967.0	967.5	968.0	971.5
14	13:22:30	974.0	968.7	965.5	970.7	971.8	973.0	969.5		967.0	968.0	966.0	966.4	968.0	970.2
15	13:23:00	967.0	968.8	965.5	968.4	972.4	972.0	968.6	971.4	967.0	968.0	965.0	966.4	967.0	970.2
16	13:23:30	972.0	969.7	965.5	970.7	972.6	970.0	969.0		967.0	968.0	966.0	966.5	968.0	970.5
17	13:24:00	973.0	970.5	966.4	970.7	973.3	971.0	970.1	969.8	968.0	969.0	967.0	967.4	969.0	971.3
18	13:24:30	976.0	971.1	966.4	969.9	973.4	971.0	970.3		968.0	969.0	967.0	967.7	969.0	971.7
19	13:25:00	978.0	971.5	967.2	973.0	973.5	973.0	971.2	972.3	969.0	969.0	968.0	969.6	970.0	972.3
20	13:25:30	976.0	971.4	967.2	970.0	973.8	974.0	971.3		969.0	969.0	968.0	967.2	970.0	972.7
21	13:26:00	977.0	970.5	966.4	971.4	973.1	973.0	970.5	988.0	968.0	969.0	967.0	967.9	969.0	971.7
1		.9978	1.0000	.9957	1.0014	1.0032	1.0019	1.0009	1.0014	.9999	.9999	.9988	.9980	.9988	1.0022
2		1.0034	1.0006	.9958	.9998	1.0029	1.0013	1.0006		.9993	.9998	.9993	.9977	.9982	1.0019
3		1.0040	.9993	.9954	1.0016	1.0021	1.0019	1.0001	1.0010	.9989	1.0009	.9978	.9976	.9989	1.0013
4		.9989	1.0003	.9966	.9983	1.0032	1.0020	1.0009		.9999	1.0009	.9989	.9981	.9999	1.0021
5		1.0018	.9989	.9947	.9973	1.0014	1.0007	1.0004	1.0121	.9987	.9997	.9976	.9972	.9987	1.0017
6		1.0042	.9999	.9962	1.0013	1.0028	1.0011	1.0005		.9991	1.0001	.9980	.9976	.9980	1.0018
7		1.0042	1.0001	.9960	1.0003	1.0029	1.0021	.9997	1.0032	.9980	.9990	.9980	.9976	.9980	1.0016
8		1.0051	1.0004	.9960	1.0017	1.0025	1.0020	1.0002		.9979	1.0000	.9969	.9975	.9990	1.0016
9		1.0052	.9976	.9945	1.0095	1.0005	1.0021	1.0001		.9990	.9990	.9969	.9970	.9990	1.0008
10		1.0048	.9992	.9961	.9990	1.0021	1.0027	1.0014		.9996	.9986	.9986	.9978	.9986	1.0019
11		1.0036	1.0000	.9959	1.0011	1.0025	1.0046	1.0010		.9994	.9973	.9973	.9977	.9984	1.0016
12		1.0037	1.0003	.9972	.9979	1.0031	1.0037	1.0006		.9985	.9990	.9975	.9982	.9985	1.0021
13		1.0045	1.0001	.9967	1.0027	1.0032	1.0025	1.0004	.9976	.9983	.9994	.9973	.9978	.9983	1.0019
14		1.0051	.9996	.9963	1.0017	1.0028	1.0041	1.0004		.9979	.9989	.9968	.9973	.9989	1.0012
15		.9986	1.0004	.9970	1.0000	1.0042	1.0037	1.0002	1.0031	.9986	.9996	.9965	.9980	.9986	1.0019
16		1.0033	1.0009	.9965	1.0019	1.0039	1.0012	1.0002		.9981	.9991	.9971	.9976	.9991	1.0017
17		1.0034	1.0008	.9966	1.0010	1.0037	1.0013	1.0004	1.0001	.9982	.9993	.9972	.9976	.9993	1.0016
18		1.0062	1.0011	.9963	.9999	1.0035	1.0010	1.0003		.9979	.9990	.9969	.9976	.9990	1.0018
19		1.0070	1.0003	.9959	1.0019	1.0024	1.0019	1.0000	1.0011	.9977	.9977	.9967	.9984	.9988	1.0011
20		1.0054	1.0007	.9963	.9992	1.0031	1.0033	1.0006		.9982	.9982	.9972	.9963	.9992	1.0020
21		1.0057	.9990	.9948	.9999	1.0016	1.0015	.9990	1.0170	.9964	.9974	.9954	.9963	.9974	1.0002
MEAN		1.0036	1.0000	.9960	1.0008	1.0027	1.0022	1.0004	1.0041	.9985	.9992	.9975	.9976	.9987	1.0016
S.D.		.0025	.0008	.0007	.0025	.0009	.0011	.0005	.0063	.0008	.0010	.0009	.0005	.0005	.0005

27 MEAN S.D.
973.1 973.12 1.906
974.3 974.72 1.971
974.3 975.11 2.118
973.0 973.08 1.727
972.4 973.29 3.772
970.2 970.90 2.106
971.2 971.95 2.305
971.2 972.01 2.418
968.9 970.00 3.611
963.0 963.37 2.211
963.1 963.56 2.460
967.4 967.46 2.236
969.0 969.62 2.357
968.1 969.06 2.606
968.0 968.38 2.261
968.4 968.85 2.186
969.2 969.71 2.027
969.5 970.00 2.576
970.4 971.20 2.687
970.9 970.75 2.660
970.0 971.50 5.316

1.0000
.9996
.9992
.9999
.9991
.9993
.9992
.9992
.9989
.9996
.9995
.9999
.9994
.9990
.9996
.9995
.9995
.9995
.9992
1.0002
.9985

.9994
.0004

TABLE 4-12

FOURTH INTERCOMPARISON - NOVEMBER 18, 1980
 RUN 12: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	13:36:00	971.0	969.2	965.2	971.6	970.7	970.0	969.3	980.2	967.0	968.0	967.0	966.9	968.0	969.5
2	13:36:30	974.0	971.1	966.9	973.1	973.4	971.0	971.9		970.0	971.0	969.0	969.0	970.0	972.2
3	13:37:00	973.0	970.8	966.9	970.8	972.9	971.0	971.6	982.0	970.0	970.0	969.0	968.6	970.0	971.8
4	13:37:30	973.0	969.2	966.1	971.6	971.5	969.0	970.9		969.0	969.0	968.0	967.7	969.0	970.9
5	13:38:00	971.0	967.1	964.4	967.1	969.7	969.0	969.2	968.9	967.0	968.0	966.0	966.1	968.0	969.5
6	13:38:30	972.0	968.0	965.2	969.3	970.8	970.0	968.8		966.0	967.0	966.0	966.2	967.0	969.2
7	13:39:00	973.0	968.0	964.4	970.8	970.7	970.0	969.0	978.0	966.0	967.0	966.0	966.3	968.0	969.1
8	13:39:30	974.0	968.7	966.1	971.6	971.3	971.0	970.2		967.0	969.0	967.0	967.2	969.0	970.2
9	13:40:00	974.0	970.0	966.1	973.1	972.7	971.0	970.0	978.0	967.0	969.0	967.0	967.3	969.0	970.3
10	13:40:30	975.0	972.5	968.6	974.6	974.6	974.0	972.9		970.0	971.0	970.0	970.1	972.0	973.2
11	13:41:00	976.0	970.7	966.9	967.8	973.2	972.0	972.2	987.7	969.0	970.0	969.0	969.0	972.0	972.2
12	13:41:30	974.0	969.4	966.1	971.6	971.8	970.0	970.6		968.0	967.5	968.0	967.5	969.0	970.9
13	13:42:00	972.0	968.3	964.4	965.6	970.6	968.0	969.0	990.8	966.0	967.0	966.0	965.9	968.0	969.3
14	13:42:30	964.0	967.0	963.5	968.6	969.3	967.0	967.4		965.0	965.5	965.0	964.3	967.0	967.7
15	13:43:00	972.0	970.0	966.1	971.6	972.0	968.0	969.3	981.1	967.0	968.0	967.0	966.8	969.0	970.2
16	13:43:30	973.0	968.3	965.2	969.3	971.0	969.0	969.7		967.0	967.0	967.0	966.8	969.0	969.9
17	13:44:00	972.0	967.2	964.4	968.6	970.5	968.0	968.8	976.1	967.0	966.0	966.0	965.5	968.0	968.9
18	13:44:30	971.0	966.6	963.5	967.1	969.0	968.0	967.5		965.0	965.0	965.0	964.5	967.0	967.8
19	13:45:00	971.0	965.7	963.5	967.8	968.1	968.0	967.8	973.6	965.0	965.0	965.0	964.5	967.0	967.6
20	13:45:30	971.0	965.8	962.7	967.8	968.5	967.0	966.9		964.0	964.5	964.0	964.0	966.0	967.4
21	13:46:00	970.0	964.8	962.7	964.8	967.8	965.0	966.3	973.6	964.0	963.0	964.0	963.2	966.0	966.9
1		1.0016	.9997	.9956	1.0022	1.0013	1.0006	.9998	1.0111	.9975	.9985	.9975	.9974	.9985	1.0001
2		1.0031	1.0002	.9958	1.0022	1.0025	1.0001	1.0010		.9990	1.0001	.9980	.9980	.9990	1.0013
3		1.0018	.9995	.9955	.9995	1.0017	.9998	1.0004	1.0111	.9987	.9987	.9977	.9973	.9987	1.0006
4		1.0035	.9996	.9964	1.0021	1.0020	.9994	1.0013		.9994	.9994	.9983	.9980	.9994	1.0013
5		1.0032	.9991	.9963	.9991	1.0018	1.0011	1.0013	1.0010	.9990	1.0001	.9980	.9981	1.0001	1.0016
6		1.0040	.9999	.9970	1.0012	1.0028	1.0020	1.0007		.9978	.9989	.9978	.9980	.9989	1.0011
7		1.0042	.9990	.9953	1.0019	1.0018	1.0011	1.0000	1.0093	.9969	.9980	.9969	.9973	.9990	1.0001
8		1.0048	.9993	.9966	1.0023	1.0020	1.0017	1.0008		.9975	.9996	.9975	.9978	.9996	1.0008
9		1.0039	.9998	.9957	1.0030	1.0025	1.0008	.9998	1.0080	.9967	.9987	.9967	.9970	.9987	1.0001
10		1.0029	1.0003	.9963	1.0025	1.0025	1.0019	1.0007		.9978	.9988	.9978	.9979	.9998	1.0011
11		1.0042	.9988	.9948	.9958	1.0013	1.0001	1.0003	1.0162	.9970	.9980	.9970	.9970	1.0001	1.0003
12		1.0046	.9998	.9964	1.0021	1.0023	1.0004	1.0011		.9984	.9979	.9984	.9979	.9994	1.0014
13		1.0028	.9990	.9950	.9962	1.0014	.9987	.9997	1.0222	.9967	.9977	.9967	.9965	.9987	1.0001
14		.9977	1.0008	.9971	1.0024	1.0031	1.0008	1.0012		.9987	.9992	.9987	.9980	1.0008	1.0015
15		1.0023	1.0002	.9962	1.0019	1.0023	.9982	.9995	1.0117	.9971	.9982	.9971	.9969	.9992	1.0004
16		1.0045	.9996	.9964	1.0007	1.0024	1.0004	1.0011		.9983	.9983	.9983	.9981	1.0004	1.0013
17		1.0038	.9989	.9960	1.0003	1.0023	.9997	1.0005	1.0080	.9986	.9976	.9976	.9971	.9997	1.0006
18		1.0045	.9999	.9967	1.0004	1.0024	1.0014	1.0009		.9983	.9983	.9983	.9978	1.0003	1.0012
19		1.0041	.9986	.9963	1.0008	1.0011	1.0010	1.0008	1.0068	.9979	.9979	.9979	.9974	.9999	1.0006
20		1.0050	.9997	.9965	1.0017	1.0025	1.0009	1.0008		.9978	.9983	.9978	.9978	.9999	1.0013
21		1.0043	.9989	.9968	.9989	1.0020	.9991	1.0005	1.0080	.9981	.9971	.9981	.9973	1.0002	1.0011
MEAN		1.0034	.9996	.9961	1.0008	1.0021	1.0004	1.0006	1.0103	.9980	.9985	.9977	.9975	.9995	1.0008
S.D.		.0016	.0006	.0006	.0020	.0005	.0010	.0005	.0054	.0008	.0008	.0006	.0005	.0007	.0005

-----	27	MEAN	S.D.
	968.1	969.45	3.455
	970.7	970.95	1.927
	970.2	971.24	3.370
	969.5	969.60	1.810
	968.1	967.94	1.702
	968.0	968.11	2.010
	968.1	968.96	3.353
	969.0	969.38	2.178
	969.0	970.23	3.170
	971.9	972.17	2.015
	970.9	971.91	4.938
	969.7	969.58	2.106
	967.8	969.25	6.292
	966.3	966.26	1.755
	968.6	969.78	3.664
	968.8	968.64	1.989
	967.7	968.31	2.893
	966.4	966.67	1.989
	966.2	967.05	2.621
	966.1	966.12	2.206
	965.4	965.83	2.896
	.9986		
	.9997		
	.9989		
	.9999		
1.0002			
.9999			
.9991			
.9996			
.9987			
.9997			
.9990			
1.0001			
.9985			
1.0000			
.9988			
1.0002			
.9994			
.9997			
.9991			
1.0000			
.9996			
.9995			
.0006			

TABLE 4-13

FOURTH INTERCOMPARISON - NOVEMBER 18, 1980
 RUN 13: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	13:58:00	960.0	958.2	953.3	958.2	959.6	959.0	957.5	966.0	956.0	956.0	957.0	954.8	956.0	957.8
2	13:58:30	960.0	958.5	954.2	959.0	959.7	960.0	958.1		956.0	956.0	957.0	955.1	956.0	958.3
3	13:59:00	960.0	958.0	953.3	958.2	959.8	960.0	958.4	972.0	957.0	956.0	958.0	955.3	957.0	958.6
4	13:59:30	960.0	957.9	953.3	957.5	958.8	960.0	958.5		957.0	956.0	958.0	955.3	956.0	958.5
5	14:00:00	959.0	957.9	953.3	957.5	959.4	959.0	957.8		956.0	956.5	957.0	955.0	957.0	958.2
6	14:00:30	960.0	958.3	954.2	959.7	959.7	959.0	958.0		956.0	957.0	957.0	955.4	957.0	958.6
7	14:01:00	960.0	959.0	954.2	962.8	959.9	960.0	957.8	967.9	956.0	957.5	957.0	955.5	957.0	958.7
8	14:01:30	960.0	958.2	954.2	960.5	959.8	961.0	957.8		956.0	957.5	957.0	955.6	957.0	958.6
9	14:02:00	958.0	957.8	953.3	958.2	958.7	960.0	956.8	965.4	955.0	956.0	955.0	954.4	956.0	957.4
10	14:02:30	957.0	957.4	952.5	958.2	958.6	959.0	956.4		955.0	955.0	955.0	954.2	955.0	957.1
11	14:03:00	956.0	956.6	951.6	962.0	958.0	957.0	955.0	963.9	953.0	954.0	954.0	953.2	954.0	956.2
12	14:03:30	954.0	954.8	950.8	956.7	956.3	957.0	954.8		952.0	953.0	953.0	952.1	953.0	955.0
13	14:04:00	956.0	955.6	951.6	962.8	957.4	959.0	955.9	962.9	954.0	954.0	954.0	953.7	955.0	956.7
14	14:04:30	954.0	955.1	950.8	957.5	957.5	956.0	955.0		953.0	953.0	954.0	953.0	954.0	956.0
15	14:05:00	954.0	954.7	949.9	957.5	956.7	956.0	954.3	965.4	953.0	952.0	953.0	952.4	953.0	955.3
16	14:05:30	950.0	953.6	948.2	953.7	955.1	954.0	953.2		952.0	951.0	952.0	951.4	952.0	954.2
17	14:06:00	952.0	952.7	948.2	956.7	955.0	954.0	952.5	962.3	951.0	950.0	952.0	950.8	951.0	953.5
18	14:06:30	952.0	951.6	947.4	954.5	953.7	954.0	951.6		950.0	950.0	950.0	950.0	951.0	953.0
19	14:07:00	951.0	951.8	947.4	955.2	953.9	955.0	951.3	959.8	950.0	950.0	950.0	949.6	950.0	952.2
20	14:07:30	951.0	952.1	947.4	955.2	953.2	955.0	951.1		950.0	949.0	950.0	949.2	950.0	952.1
21	14:08:00	951.0	950.9	947.4	953.7	952.3	954.0	950.3	959.4	949.0	949.5	949.0	948.7	950.0	951.4
1		1.0024	1.0005	.9954	1.0005	1.0019	1.0013	.9998	1.0086	.9982	.9982	.9992	.9969	.9982	1.0001
2		1.0026	1.0011	.9966	1.0016	1.0023	1.0026	1.0006		.9984	.9984	.9995	.9975	.9984	1.0009
3		1.0015	.9994	.9945	.9996	1.0013	1.0015	.9998	1.0140	.9983	.9973	.9994	.9966	.9983	1.0000
4		1.0027	1.0005	.9957	1.0001	1.0014	1.0027	1.0011		.9996	.9985	1.0006	.9978	.9985	1.0011
5		1.0019	1.0008	.9960	1.0004	1.0023	1.0019	1.0007		.9988	.9993	.9998	.9977	.9998	1.0011
6		1.0025	1.0007	.9964	1.0022	1.0022	1.0014	1.0004		.9983	.9993	.9993	.9977	.9993	1.0010
7		1.0014	1.0003	.9953	1.0043	1.0013	1.0014	.9991	1.0096	.9972	.9988	.9982	.9967	.9982	1.0000
8		1.0022	1.0003	.9962	1.0027	1.0020	1.0033	.9999		.9980	.9996	.9991	.9976	.9991	1.0008
9		1.0009	1.0006	.9959	1.0011	1.0016	1.0029	.9996	1.0086	.9977	.9988	.9977	.9971	.9988	1.0002
10		1.0009	1.0013	.9962	1.0022	1.0026	1.0030	1.0003		.9988	.9988	.9988	.9980	.9988	1.0010
11		1.0001	1.0007	.9955	1.0064	1.0022	1.0011	.9990	1.0083	.9969	.9980	.9980	.9971	.9980	1.0003
12		1.0000	1.0009	.9967	1.0029	1.0024	1.0032	1.0009		.9979	.9990	.9990	.9980	.9990	1.0011
13		.9997	.9993	.9951	1.0069	1.0012	1.0029	.9996	1.0070	.9977	.9977	.9977	.9973	.9987	1.0005
14		.9995	1.0006	.9961	1.0031	1.0031	1.0016	1.0005		.9984	.9984	.9995	.9984	.9995	1.0016
15		.9993	1.0000	.9950	1.0029	1.0021	1.0013	.9996	1.0112	.9982	.9972	.9982	.9976	.9982	1.0006
16		.9975	1.0013	.9957	1.0014	1.0029	1.0017	1.0009		.9996	.9986	.9996	.9990	.9996	1.0020
17		.9991	.9998	.9951	1.0040	1.0022	1.0012	.9996	1.0099	.9980	.9970	.9991	.9978	.9980	1.0007
18		1.0006	1.0002	.9958	1.0032	1.0024	1.0027	1.0002		.9985	.9985	.9985	.9985	.9996	1.0017
19		.9991	1.0000	.9953	1.0035	1.0022	1.0033	.9994	1.0084	.9981	.9981	.9981	.9977	.9981	1.0004
20		.9999	1.0011	.9961	1.0043	1.0022	1.0041	1.0000		.9989	.9978	.9989	.9980	.9989	1.0011
21		.9999	.9998	.9961	1.0027	1.0013	1.0031	.9992	1.0087	.9978	.9983	.9978	.9975	.9989	1.0003
	MEAN	1.0006	1.0004	.9957	1.0027	1.0021	1.0023	1.0000	1.0094	.9983	.9984	.9989	.9976	.9988	1.0008
	S.D.	.0014	.0006	.0006	.0019	.0005	.0009	.0006	.0020	.0007	.0007	.0008	.0006	.0006	.0005

-----	27	MEAN	S.D.
956.6	957.73	2.905	
956.9	957.49	1.873	
957.4	958.60	4.124	
957.0	957.41	1.839	
956.7	957.16	1.654	
957.0	957.64	1.723	
957.1	958.69	3.324	
957.1	957.88	1.961	
955.7	957.18	2.896	
955.3	956.12	1.854	
954.4	955.93	3.333	
953.2	953.98	1.868	
955.0	956.24	3.199	
954.2	954.51	1.848	
953.5	954.71	3.533	
952.3	952.34	1.832	
951.5	952.88	3.324	
951.0	951.41	1.938	
950.3	951.83	3.055	
950.0	951.09	2.236	
949.8	951.09	2.928	
.9988			
.9994			
.9987			
.9996			
.9995			
.9993			
.9983			
.9992			
.9985			
.9991			
.9984			
.9992			
.9987			
.9997			
.9987			
1.0000			
.9986			
.9996			
.9984			
.9989			
.9986			
.9990			
.9905			

TABLE 4-14

FOURTH INTERCOMPARISON - NOVEMBER 18, 1980
 RUN 14: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	14:18:00	942.0	941.7	938.7	946.0	944.3	940.0	943.0	947.4	940.0	941.0	942.0	940.0	941.0	943.2
2	14:18:30	942.0	940.3	937.8	942.2	943.1	940.0	941.7		939.0	940.0	940.0	939.3	940.0	941.9
3	14:19:00	942.0	939.7	936.1	941.5	942.2	940.0	940.9	947.4	938.0	939.5	939.0	938.1	939.0	940.7
4	14:19:30	941.0	939.1	936.1	940.0	942.0	940.0	940.5		938.0	939.0	939.0	937.5	939.0	940.4
5	14:20:00	940.0	938.0	935.3	939.2	940.4	939.0	939.3	938.9	937.0	938.0	938.0	936.6	938.0	939.2
6	14:20:30	939.0	938.3	934.4	936.9	940.5	938.0	938.9		936.0	936.0	937.0	936.3	937.0	939.0
7	14:21:00	939.0	936.6	933.6	940.0	938.9	938.0	937.4	948.1	935.0	935.0	936.0	934.5	936.0	937.6
8	14:21:30	936.0	935.4	932.7	935.4	938.1	937.0	936.5		934.0	935.0	934.0	933.6	935.0	936.4
9	14:22:00	937.0	935.8	932.7	936.2	938.4	936.0	937.4	940.5	935.0	935.0	935.0	934.0	935.0	936.9
10	14:22:30	936.0	935.2	931.9	936.9	937.5	935.0	936.6		934.0	934.5	935.0	933.1	934.0	935.7
11	14:23:00	933.0	933.6	931.1	933.9	936.1	934.0	936.0	940.5	933.0	934.0	934.0	932.6	934.0	935.4
12	14:23:30	935.0	933.5	930.2	933.2	936.2	932.0	935.6		933.0	933.0	935.0	932.2	933.0	935.1
13	14:24:00	933.5	933.2	930.2	933.9	935.7	932.0	935.4	934.4	933.0	932.5	935.0	931.6	932.0	934.6
14	14:24:30	933.0	931.9	928.5	930.9	934.6	931.0	934.4		932.0	931.0	934.0	930.7	932.0	933.6
15	14:25:00	931.0	932.5	928.5	928.6	934.5	932.0	934.0		932.0	931.0	933.0	930.3	931.0	933.1
16	14:25:30	931.0	930.7	928.5	927.1	934.2	929.0	933.6		931.0	930.5	933.0	929.5	930.0	932.4
17	14:26:00	932.0	932.2	928.5	928.6	934.2	929.0	934.4		932.0	930.0	934.0	930.1	930.0	933.0
18	14:26:30	933.0	931.9	928.5	931.7	934.5	930.0	934.3		932.0	930.5	934.0	930.2	931.0	933.2
19	14:27:00	926.0	931.5	928.5	927.9	934.5	931.0	933.9	931.3	932.0	931.0	933.0	930.0	931.0	932.9
20	14:27:30	933.0	931.1	928.5	934.7	933.0	930.0	934.0		931.0	931.0	933.0	930.1	931.0	932.4
21	14:28:00	930.0	929.9	926.8	930.9	932.6	929.0	932.0	928.1	929.0	930.0	931.0	928.3	929.0	931.1
1		.9999	.9996	.9964	1.0042	1.0023	.9978	1.0010	1.0056	.9978	.9988	.9999	.9978	.9988	1.0012
2		1.0016	.9998	.9971	1.0018	1.0028	.9995	1.0013		.9984	.9995	.9995	.9987	.9995	1.0015
3		1.0019	.9995	.9956	1.0014	1.0021	.9998	1.0007	1.0077	.9977	.9993	.9987	.9978	.9987	1.0005
4		1.0018	.9998	.9966	1.0008	1.0029	1.0008	1.0013		.9986	.9997	.9997	.9981	.9997	1.0012
5		1.0018	.9997	.9968	1.0010	1.0023	1.0008	1.0011	1.0007	.9986	.9997	.9997	.9982	.9997	1.0010
6		1.0016	1.0009	.9967	.9994	1.0032	1.0006	1.0015		.9984	.9984	.9995	.9988	.9995	1.0016
7		1.0017	.9991	.9959	1.0027	1.0016	1.0006	1.0000	1.0114	.9974	.9974	.9985	.9969	.9985	1.0002
8		1.0008	1.0002	.9973	1.0002	1.0030	1.0019	1.0013		.9987	.9997	.9987	.9982	.9997	1.0012
9		1.0011	.9998	.9965	1.0002	1.0026	1.0000	1.0015	1.0048	.9989	.9989	.9989	.9979	.9989	1.0010
10		1.0011	1.0003	.9967	1.0021	1.0027	1.0001	1.0018		.9990	.9995	1.0001	.9980	.9990	1.0008
11		.9986	.9992	.9966	.9996	1.0019	.9997	1.0018	1.0066	.9986	.9997	.9997	.9982	.9997	1.0012
12		1.0015	.9999	.9964	.9996	1.0028	.9983	1.0022		.9994	.9994	1.0015	.9985	.9994	1.0016
13		1.0002	.9999	.9967	1.0006	1.0026	.9986	1.0023	1.0012	.9997	.9991	1.0018	.9982	.9986	1.0014
14		1.0010	.9998	.9962	.9987	1.0027	.9988	1.0025		.9999	.9988	1.0021	.9985	.9999	1.0016
15		.9993	1.0010	.9967	.9968	1.0031	1.0004	1.0026		1.0004	.9993	1.0015	.9986	.9993	1.0016
16		1.0002	.9999	.9975	.9960	1.0037	.9981	1.0030		1.0002	.9997	1.0024	.9986	.9992	1.0017
17		1.0007	1.0009	.9969	.9970	1.0030	.9975	1.0033		1.0007	.9985	1.0028	.9986	.9985	1.0018
18		1.0012	1.0001	.9964	.9998	1.0028	.9980	1.0026		1.0002	.9986	1.0023	.9982	.9991	1.0014
19		.9946	1.0005	.9973	.9966	1.0037	1.0000	1.0031	1.0003	1.0010	1.0000	1.0021	.9989	1.0000	1.0020
20		1.0014	.9993	.9966	1.0032	1.0014	.9982	1.0025		.9992	.9992	1.0014	.9983	.9992	1.0007
21		1.0002	1.0001	.9968	1.0012	1.0030	.9992	1.0024	.9982	.9992	1.0002	1.0013	.9984	.9992	1.0014
MEAN		1.0006	1.0000	.9966	1.0001	1.0027	.9994	1.0019	1.0040	.9991	.9992	1.0006	.9983	.9992	1.0013
S.D.		.0016	.0005	.0004	.0022	.0006	.0012	.0009	.0043	.0010	.0006	.0014	.0004	.0004	.0004

----- 27	MEAN	S.D.
941.0	942.09	2.372
939.8	940.51	1.463
938.9	940.20	2.576
938.5	939.29	1.517
937.4	938.29	1.350
937.2	937.46	1.589
935.7	937.43	3.467
934.5	935.26	1.460
934.9	935.99	1.889
933.9	934.95	1.534
933.6	934.32	2.134
933.1	933.58	1.629
932.5	933.30	1.550
931.5	932.08	1.696
931.1	931.61	1.779
930.5	930.79	1.993
931.1	931.36	2.061
931.1	931.85	1.783
931.1	931.04	2.259
931.1	931.71	1.704
929.1	929.79	1.551

.9988
 .9992
 .9986
 .9992
 .9991
 .9997
 .9982
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 .9988
 .9989
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 .9995
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 .9994
 .9997
 .9997
 .9992
 1.0001
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 .9993

 .9992
 .0004

TABLE 4-15

FOURTH INTERCOMPARISON - NOVEMBER 18, 1980
 RUN 15: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	14:42:00	911.0	907.7	904.4		910.2	907.0	908.6	914.4	907.0	907.0	906.0	906.2	907.1	908.3
2	14:42:30	911.0	908.1	903.6		910.0	907.0	907.4		906.0	906.0	903.0	905.6	906.1	907.5
3	14:43:00	909.0	905.8	903.6		907.3	906.0	906.5	912.8	905.0	905.0	903.0	904.8	905.8	907.3
4	14:43:30	908.0	903.9	901.0		906.2	902.0	904.7		903.0	902.0	901.0	902.7	903.1	905.1
5	14:44:00	906.0	901.9	899.4		904.4	901.0	903.1	912.4	901.0	901.0	899.0	901.2	901.7	903.8
6	14:44:30	904.0	900.3	896.8		903.1	901.0	901.7		900.0	899.0	898.0	899.3	900.2	901.8
7	14:45:00	904.0	900.5	897.7		903.1	899.0	901.4	913.0	900.0	898.0	898.0	899.1	900.0	901.5
8	14:45:30	905.0	900.9	898.5		903.8	899.0	901.7		900.0	899.0	899.0	899.5	900.3	902.0
9	14:46:00	903.5	901.4	897.7		904.3	899.0	901.8	908.9	900.0	899.0	900.0	899.9	900.7	902.4
10	14:46:30	903.0	900.7	898.5		903.2	898.0	901.8		901.0	899.0	899.0	899.6	900.4	902.1
11	14:47:00	901.0	901.5	898.5		904.2	897.0	901.5	908.3	900.0	899.0	900.0	899.6	900.1	902.0
12	14:47:30	902.0	898.9	895.1		901.9	895.0	898.9		898.0	897.0	898.0	897.9	898.6	900.3
13	14:48:00	900.0	897.6	894.3		899.9	896.0	898.2	904.2	897.0	895.0	895.0	896.5	897.1	898.9
14	14:48:30	895.0	895.2	893.4		898.3	895.0	895.7		895.0	893.0	892.0	894.1	894.7	896.1
15	14:49:00	889.0	892.9	890.0		895.5	892.0	893.7	882.6	893.0	890.0	892.0	892.0	892.1	894.5
16	14:49:30	891.0	893.1	890.0		895.7	890.0	893.5		893.0	889.0	892.0	891.5	891.6	894.2
17	14:50:00	893.1	893.4	890.0		896.0	891.0	893.3	898.1	892.0	890.0	891.0	891.5	891.7	894.1
18	14:50:30	891.0	892.9	890.0		895.6	891.0	893.3		892.0	891.0	891.0	891.3	892.0	893.9
19	14:51:00	882.0	891.8	889.2		894.4	889.0	893.2	899.6	893.0	889.0	892.0	890.7	891.1	893.3
20	14:51:30	875.0	891.8	889.2		894.8	888.0	893.2		893.0	888.5	892.0	890.8	890.8	893.8
21	14:52:00	886.0	891.0	887.5		893.7	886.0	892.3	894.5	892.0	887.0	893.0	889.7	889.2	893.1
1		1.0034	.9997	.9961		1.0025	.9989	1.0007	1.0071	.9989	.9989	.9978	.9981	.9991	1.0004
2		1.0047	1.0015	.9966		1.0036	1.0003	1.0008		.9992	.9992	.9959	.9988	.9993	1.0009
3		1.0031	.9995	.9971		1.0012	.9997	1.0003	1.0073	.9986	.9986	.9964	.9984	.9995	1.0012
4		1.0050	1.0004	.9972		1.0030	.9983	1.0013		.9994	.9983	.9972	.9991	.9996	1.0018
5		1.0037	.9991	.9964		1.0019	.9981	1.0005	1.0108	.9981	.9981	.9959	.9984	.9989	1.0013
6		1.0040	.9999	.9960		1.0030	1.0007	1.0015		.9996	.9985	.9974	.9988	.9998	1.0016
7		1.0033	.9994	.9963		1.0023	.9977	1.0004	1.0132	.9988	.9966	.9966	.9978	.9988	1.0005
8		1.0048	1.0002	.9976		1.0035	.9981	1.0011		.9992	.9981	.9981	.9987	.9996	1.0015
9		1.0024	1.0001	.9960		1.0033	.9974	1.0005	1.0084	.9985	.9974	.9985	.9984	.9993	1.0012
10		1.0028	1.0002	.9978		1.0030	.9972	1.0015		1.0006	.9984	.9984	.9990	.9999	1.0018
11		1.0001	1.0007	.9973		1.0037	.9957	1.0007	1.0082	.9990	.9979	.9990	.9986	.9991	1.0012
12		1.0040	1.0006	.9964		1.0039	.9962	1.0006		.9996	.9985	.9996	.9995	1.0003	1.0021
13		1.0027	1.0000	.9963		1.0026	.9982	1.0007	1.0074	.9993	.9971	.9971	.9988	.9994	1.0014
14		1.0003	1.0005	.9985		1.0040	1.0003	1.0011		1.0003	.9981	.9969	.9993	1.0000	1.0015
15		.9972	1.0015	.9983		1.0045	1.0005	1.0024	.9900	1.0017	.9983	1.0005	1.0005	1.0006	1.0033
16		.9989	1.0012	.9977		1.0041	.9977	1.0017		1.0011	.9966	1.0000	.9994	.9995	1.0024
17		1.0005	1.0009	.9970		1.0038	.9982	1.0007	1.0061	.9993	.9970	.9982	.9987	.9990	1.0016
18		.9988	1.0010	.9977		1.0040	.9988	1.0014		1.0000	.9988	.9988	.9992	1.0000	1.0021
19		.9895	1.0005	.9975		1.0034	.9973	1.0020	1.0092	1.0018	.9973	1.0007	.9992	.9997	1.0021
20		.9830	1.0018	.9989		1.0052	.9976	1.0034		1.0032	.9981	1.0020	1.0007	1.0007	1.0041
21		.9951	1.0007	.9968		1.0037	.9951	1.0022	1.0046	1.0018	.9962	1.0029	.9992	.9987	1.0031
MEAN		1.0003	1.0005	.9971		1.0033	.9982	1.0012	1.0066	.9999	.9979	.9985	.9990	.9996	1.0018
S.D.		.0055	.0007	.0009		.0009	.0015	.0008	.0060	.0013	.0008	.0019	.0007	.0006	.0009

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-----	MEAN	S.D.
27		
906.5	907.96	2.505
905.8	906.70	2.221
905.3	906.23	2.432
902.8	903.50	2.046
901.5	902.67	3.372
899.7	900.38	1.976
899.6	901.06	3.907
900.1	900.68	1.974
900.3	901.35	2.819
900.0	900.48	1.681
899.8	900.89	2.736
897.2	898.37	2.156
896.7	897.60	2.576
894.1	894.74	1.555
892.0	891.52	3.105
891.6	892.02	1.861
891.7	892.64	2.274
891.4	892.03	1.525
891.1	891.39	3.839
891.4	890.18	4.989
890.3	890.38	2.894

.9984
 .9990
 .9990
 .9992
 .9987
 .9992
 .9984
 .9994
 .9988
 .9995
 .9988
 .9987
 .9990
 .9993
 1.0005
 .9995
 .9990
 .9993
 .9997
 1.0014
 .9999

 .9993
 .0007

TABLE 4-16

FOURTH INTERCOMPARISON - NOVEMBER 18, 1980
 RUN 16: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	15:03:00		878.9	876.9	878.3	881.4	882.0	879.1	885.3	877.0	879.0	878.0	876.9	878.2	879.2
2	15:03:30		879.7	876.0	880.6	881.8	883.0	879.8		878.0	878.0	878.0	877.4	878.5	879.8
3	15:04:00		878.5	874.4	879.1	880.4	882.0	879.2	881.8	877.0	879.0	878.0	876.9	878.4	879.3
4	15:04:30		877.6	873.5	878.3	879.9	881.0	877.4		876.0	876.5	876.0	875.2	876.7	877.7
5	15:05:00		875.9	872.7	873.8	878.4	881.0	876.4	885.9	874.0	875.0	875.0	874.3	875.5	876.7
6	15:05:30		875.0	871.8	875.3	877.8	880.0	875.7		873.0	875.0	874.0	873.5	874.6	876.0
7	15:06:00		873.9	870.1	873.8	876.2	877.0	874.3	880.8	872.0	872.0	873.0	871.6	872.5	874.3
8	15:06:30		871.7	868.4	870.0	874.3	875.0	871.9		870.0	871.0	870.0	869.3	870.5	872.0
9	15:07:00		870.8	866.7	869.2	872.8	873.0	870.6	880.8	869.0	866.0	869.0	868.1	868.9	870.9
10	15:07:30		869.0	865.9	868.5	871.4	874.0	869.4		867.0	869.5	868.0	866.9	868.6	869.4
11	15:08:00		867.0	863.3	867.7	869.5	872.0	867.5	875.6	865.0	867.0	866.0	865.0	866.0	867.6
12	15:08:30		865.4	861.6	865.4	867.7	869.0	866.0		864.0	864.0	864.0	863.3	864.1	865.7
13	15:09:00		864.5	860.8	865.4	866.9	868.0	864.6	869.5	862.0	862.0	863.0	862.0	862.7	864.6
14	15:09:30		863.8	860.0	863.9	866.0	868.0	863.9		862.0	863.0	863.0	861.4	862.3	864.2
15	15:10:00		862.9	859.1	861.7	865.5	866.0	863.2	865.4	861.0	861.0	862.0	860.7	861.3	863.3
16	15:10:30		861.6	858.3	858.6	864.7	865.0	861.6		859.0	861.0	860.0	859.4	860.3	862.1
17	15:11:00		855.8	853.2	857.9	858.7	862.0	853.3	851.9	856.0	857.0	856.0	855.4	856.3	857.9
18	15:11:30		857.3	853.2	858.6	859.3	859.0	855.6		854.0	855.0	854.0	853.6	854.2	856.3
19	15:12:00		856.6	851.5	854.8	858.9	861.0	855.2	863.8	853.0	856.0	853.0	853.6	854.4	855.8
20	15:12:30		854.7	850.6	853.3	857.1	859.0	853.7		852.0	855.0	851.0	851.7	852.6	854.0
21	15:13:00		852.5	848.9	851.1	855.0	857.0	852.0	860.2	850.0	853.0	849.0	849.8	851.1	852.1
1			.9997	.9975	.9990	1.0026	1.0033	1.0000	1.0070	.9976	.9998	.9987	.9975	.9989	1.0001
2			1.0006	.9964	1.0016	1.0030	1.0044	1.0007		.9987	.9987	.9987	.9980	.9994	1.0007
3			.9998	.9951	1.0005	1.0019	1.0038	1.0006	1.0035	.9981	1.0003	.9992	.9980	.9997	1.0007
4			1.0006	.9959	1.0014	1.0032	1.0045	1.0004		.9988	.9993	.9988	.9979	.9996	1.0007
5			.9994	.9958	.9970	1.0023	1.0052	1.0000	1.0108	.9973	.9984	.9984	.9976	.9990	1.0003
6			.9999	.9963	1.0003	1.0031	1.0056	1.0007		.9976	.9999	.9988	.9982	.9995	1.0011
7			1.0000	.9957	.9999	1.0027	1.0036	1.0005	1.0079	.9979	.9979	.9990	.9974	.9984	1.0005
8			1.0007	.9969	.9987	1.0037	1.0045	1.0009		.9987	.9999	.9987	.9979	.9993	1.0010
9			1.0005	.9958	.9987	1.0028	1.0031	1.0003	1.0120	.9985	.9950	.9985	.9974	.9984	1.0006
10			1.0001	.9966	.9996	1.0029	1.0059	1.0006		.9978	1.0007	.9990	.9977	.9997	1.0007
11			.9994	.9951	1.0002	1.0023	1.0052	1.0000	1.0093	.9971	.9994	.9982	.9971	.9982	1.0001
12			1.0005	.9961	1.0005	1.0032	1.0047	1.0012		.9989	.9989	.9989	.9981	.9990	1.0009
13			1.0003	.9961	1.0014	1.0031	1.0044	1.0005	1.0061	.9975	.9975	.9986	.9975	.9983	1.0005
14			1.0005	.9961	1.0006	1.0030	1.0054	1.0006		.9984	.9996	.9996	.9977	.9988	1.0010
15			1.0005	.9961	.9991	1.0035	1.0041	1.0008	1.0034	.9983	.9983	.9994	.9979	.9986	1.0009
16			1.0008	.9970	.9973	1.0044	1.0047	1.0008		.9978	1.0001	.9989	.9982	.9993	1.0014
17			.9995	.9964	1.0019	1.0029	1.0067	.9966	.9949	.9997	1.0009	.9997	.9990	1.0001	1.0019
18			1.0018	.9971	1.0034	1.0042	1.0038	.9999		.9980	.9992	.9980	.9975	.9982	1.0007
19			1.0009	.9949	.9988	1.0036	1.0060	.9992	1.0093	.9967	1.0002	.9967	.9974	.9983	.9999
20			1.0013	.9965	.9996	1.0041	1.0063	1.0001		.9981	1.0016	.9969	.9978	.9988	1.0005
21			1.0002	.9960	.9986	1.0032	1.0055	.9996	1.0093	.9973	1.0008	.9961	.9971	.9986	.9997
	MEAN		1.0003	.9962	.9999	1.0031	1.0048	1.0002	1.0067	.9980	.9993	.9985	.9978	.9989	1.0007
	S.D.		.0006	.0006	.0015	.0006	.0010	.0010	.0048	.0007	.0014	.0009	.0004	.0006	.0005

----- 27	MEAN	S.D.
877.7	879.14	2.335
878.5	879.17	1.888
877.7	878.69	1.971
876.2	877.08	1.947
875.1	876.41	3.428
874.3	875.08	2.091
872.6	873.86	2.692
870.2	871.10	1.884
868.9	870.34	3.608
867.9	868.88	2.078
866.1	867.52	3.126
864.1	864.95	1.918
862.8	864.20	2.533
862.4	863.38	2.026
861.8	862.49	2.020
860.3	860.92	2.104
856.1	856.25	2.528
854.3	855.72	2.166
854.3	855.85	3.350
852.2	853.61	2.411
850.7	852.31	3.185

.9984
.9992
.9989
.9990
.9985
.9991
.9986
.9990
.9984
.9989
.9984
.9990
.9984
.9989
.9992
.9993
.9998
.9983
.9982
.9984
.9981

.9988
.0004

TABLE 4-17

FOURTH INTERCOMPARISON - NOVEMBER 18, 1980
 RUN 17: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	15:22:00		825.1	821.4	823.2	827.5	829.0	824.8	831.1	823.0	823.0	823.0	823.2	824.1	825.9
2	15:22:30		819.9	816.3	824.0	821.9	826.0	821.0		819.0	821.0	819.0	819.3	819.7	821.8
3	15:23:00		815.3	811.2	814.9	817.9	820.0	815.0	818.1	813.0	814.0	812.0	813.3	813.5	815.4
4	15:23:30		817.6	814.6	817.9	819.9	823.0	818.3		816.0	816.0	816.0	815.7	815.7	818.3
5	15:24:00		817.5	814.6	819.5	820.4	822.0	818.5	824.4	817.0	817.0	816.0	816.3	816.6	819.1
6	15:24:30		816.9	814.6	820.2	819.9	820.0	818.2		817.0	816.5	816.0	816.2	816.5	818.8
7	15:25:00		816.4	812.9	820.2	819.0	817.0	817.0	802.0	816.0	814.0	815.0	815.0	814.7	817.8
8	15:25:30		813.6	810.4	814.9	816.5	815.0	814.1		813.0	813.0	813.0	812.5	812.5	815.2
9	15:26:00		809.7	807.8	813.4	814.1	814.0	812.0		811.0	810.5	810.0	810.3	810.5	812.9
10	15:26:30		810.4	807.0	813.4	813.9	811.0	811.5		810.0	808.0	811.0	809.3	808.5	812.2
11	15:27:00		809.6	805.3	811.1	812.0	810.0	809.5	815.0	808.0	807.0	809.0	807.7	807.1	810.5
12	15:27:30		805.4	801.9	808.1	808.2	807.0	805.0		804.0	803.0	804.0	803.3	803.1	806.2
13	15:28:00		802.6	800.2	808.1	805.8	806.0	804.2	807.2	803.0	802.0	803.0	802.6	802.4	805.3
14	15:28:30		799.4	795.1	799.7	802.3	801.0	800.1		799.0	797.0	798.0	797.9	807.4	800.7
15	15:29:00		796.3	793.4	798.2	799.5	799.0	797.1	804.1	796.0	794.0	796.0	795.6	805.0	798.4
16	15:29:30		796.3	792.6	799.0	799.1	798.0	796.9		795.0	793.5	796.0	795.1	794.6	797.7
17	15:30:00		795.6	792.2	794.4	798.8	798.0	796.1	802.5	795.0	793.0	794.0	794.5	794.1	797.3
18	15:30:30		794.1	791.3	795.9	796.5	798.0	794.5		793.0	792.0	793.0	793.2	792.5	795.6
19	15:31:00		792.3	788.3	793.7	795.1	795.0	791.9	789.4	791.0	789.0	790.0	790.7	789.9	793.3
20	15:31:30		792.4	788.3	793.7	795.4	794.0	792.5		791.0	789.5	792.0	791.2	790.3	793.8
21	15:32:00		790.4	787.5	792.1	792.8	793.0	790.5	789.4	789.0	787.0	789.0	789.2	788.1	791.9
1			1.0003	.9958	.9980	1.0032	1.0050	.9999	1.0076	.9977	.9977	.9977	.9980	.9991	1.0012
2			.9990	.9946	1.0040	1.0015	1.0065	1.0004		.9979	1.0004	.9979	.9983	.9988	1.0013
3			1.0006	.9956	1.0001	1.0038	1.0064	1.0002	1.0040	.9978	.9990	.9965	.9981	.9984	1.0007
4			1.0003	.9967	1.0007	1.0031	1.0069	1.0012		.9984	.9984	.9984	.9980	.9980	1.0012
5			.9990	.9955	1.0015	1.0026	1.0045	1.0003	1.0075	.9984	.9984	.9972	.9976	.9979	1.0010
6			.9993	.9964	1.0033	1.0029	1.0030	1.0008		.9994	.9988	.9982	.9984	.9988	1.0016
7			1.0015	.9972	1.0062	1.0047	1.0022	1.0022	.9838	1.0010	.9985	.9998	.9998	.9994	1.0032
8			1.0000	.9961	1.0016	1.0036	1.0017	1.0006		.9993	.9993	.9993	.9987	.9987	1.0020
9			.9980	.9957	1.0026	1.0035	1.0033	1.0009		.9996	.9990	.9984	.9988	.9990	1.0020
10			.9999	.9957	1.0036	1.0043	1.0007	1.0013		.9994	.9970	1.0007	.9986	.9976	1.0022
11			1.0004	.9951	1.0023	1.0034	1.0009	1.0003	1.0071	.9984	.9972	.9997	.9981	.9973	1.0015
12			1.0007	.9964	1.0041	1.0042	1.0027	1.0002		.9990	.9977	.9990	.9981	.9978	1.0017
13			.9983	.9953	1.0052	1.0023	1.0025	1.0003	1.0040	.9988	.9976	.9988	.9983	.9981	1.0017
14			.9996	.9943	1.0000	1.0033	1.0016	1.0005		.9991	.9966	.9979	.9978	1.0096	1.0013
15			.9982	.9946	1.0006	1.0022	1.0016	.9992	1.0080	.9978	.9953	.9978	.9973	1.0091	1.0008
16			1.0003	.9956	1.0036	1.0038	1.0024	1.0010		.9986	.9967	.9999	.9987	.9981	1.0020
17			.9998	.9955	.9983	1.0039	1.0028	1.0005	1.0085	.9991	.9966	.9978	.9984	.9979	1.0020
18			1.0000	.9965	1.0023	1.0031	1.0049	1.0005		.9986	.9974	.9986	.9989	.9980	1.0019
19			1.0010	.9960	1.0028	1.0046	1.0045	1.0005	.9974	.9994	.9969	.9981	.9990	.9980	1.0023
20			1.0006	.9954	1.0022	1.0043	1.0026	1.0007		.9988	.9969	1.0000	.9990	.9979	1.0023
21			1.0006	.9969	1.0027	1.0036	1.0039	1.0007	.9993	.9988	.9963	.9988	.9991	.9977	1.0025
	MEAN		.9999	.9958	1.0022	1.0034	1.0034	1.0006	1.0027	.9988	.9977	.9986	.9984	.9993	1.0017
	S.D.		.0009	.0008	.0021	.0008	.0018	.0006	.0076	.0008	.0012	.0010	.0006	.0034	.0006

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----- 27	MEAN	S.D.
823.9	824.87	2.683
820.2	820.70	2.429
813.8	814.81	2.447
816.3	817.33	2.239
817.1	818.29	2.613
816.8	817.51	1.754
815.6	815.19	4.263
812.8	813.58	1.561
810.6	811.29	1.870
809.6	810.45	2.028
807.8	809.26	2.446
803.6	804.83	2.024
803.0	803.96	2.217
798.3	799.68	2.972
795.8	797.74	3.376
795.5	796.10	2.002
794.8	795.74	2.679
793.4	794.08	1.940
791.0	791.47	2.165
791.4	791.96	1.977
789.1	789.93	1.919

.9988
 .9994
 .9988
 .9987
 .9986
 .9991
 1.0005
 .9990
 .9991
 .9990
 .9982
 .9985
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 .9983
 .9976
 .9992
 .9988
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 .9994
 .9993
 .9990

 .9989
 .0006

TABLE 4-18

FOURTH INTERCOMPARISON - NOVEMBER 18, 1980
 RUN 18: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	15:45:00		743.5	740.3	744.7	745.1	746.0	743.0	748.4	742.0	742.0	742.0	741.2	743.1	744.0
2	15:45:30		741.7	739.5	747.8	744.3	745.0	743.0		741.0	741.0	741.0	740.8	742.4	743.4
3	15:46:00		740.1	737.8	745.5	742.4	743.0	741.0	742.0	740.0	739.0	740.0	738.9	740.4	741.5
4	15:46:30		737.6	735.2	739.4	739.7	741.0	738.1		737.0	736.0	737.0	736.0	737.5	738.8
5	15:47:00		734.1	731.8	734.1	736.4	737.0	735.0	742.0	734.0	732.0	734.0	732.8	734.0	735.6
6	15:47:30		731.7	729.3	731.0	733.7	737.0	733.5		732.0	730.0	732.0	731.1	732.6	733.9
7	15:48:00		732.8	731.0	731.8	735.2	736.0	732.8	740.9	732.0	731.0	732.0	730.7	732.3	733.7
8	15:48:30		732.8	731.0	731.8	735.1	736.0	733.6		733.0	732.0	733.0	731.3	733.1	734.5
9	15:49:00		730.2	728.4	729.5	732.2	734.0	731.7	734.1	731.0	730.0	730.0	729.2	731.1	732.2
10	15:49:30		729.3	726.7	731.8	731.3	732.0	730.8		730.0	728.0	729.0	727.9	729.7	731.1
11	15:50:00		730.1	727.6	732.6	732.3	733.0	730.5	725.6	729.0	728.5	729.0	728.1	730.1	731.2
12	15:50:30		728.6	726.7	731.0	730.5	733.0	729.7		728.0	728.0	728.0	727.6	729.5	730.7
13	15:51:00		727.4	725.5	730.3	730.2	732.0	728.7	724.5	727.0	727.0	727.0	726.3	728.5	729.3
14	15:51:30		726.2	723.3	729.5	728.2	730.0	726.9		725.0	724.5	726.0	724.6	726.4	727.8
15	15:52:00		725.8	723.3	727.2	727.8	729.0	726.3	723.4	725.0	724.0	726.0	723.9	725.5	727.1
16	15:52:30		725.0	722.5	725.7	727.2	729.0	726.9		725.0	723.0	726.0	723.9	725.3	727.1
17	15:53:00		723.4	720.8	724.9	725.3	727.0	724.8	731.4	724.0	722.0	724.0	721.9	724.1	725.4
18	15:53:30		721.3	719.1	721.9	723.7	726.0	723.5		722.0	720.5	722.0	720.4	722.3	723.7
19	15:54:00		717.0	714.8	717.3	719.2	721.0	718.9	715.4	717.0	716.0	718.0	715.7	718.0	719.3
20	15:54:30		716.0	714.0	714.3	718.5	720.0	717.7		716.0	714.5	717.0	714.8	716.5	718.1
21	15:55:00		715.6	714.0	715.0	718.0	720.0	717.4	731.4	716.0	714.0	716.0	714.6	716.5	718.0
1			1.0001	.9958	1.0017	1.0023	1.0035	.9994	1.0067	.9981	.9981	.9981	.9970	.9996	1.0008
2			.9989	.9959	1.0071	1.0024	1.0033	1.0006		.9979	.9979	.9979	.9977	.9998	1.0012
3			.9990	.9959	1.0063	1.0021	1.0029	1.0002	1.0016	.9989	.9975	.9989	.9974	.9994	1.0009
4			1.0000	.9967	1.0024	1.0028	1.0046	1.0007		.9992	.9978	.9992	.9978	.9999	1.0016
5			.9991	.9959	.9991	1.0022	1.0030	1.0003	1.0098	.9989	.9962	.9989	.9973	.9989	1.0011
6			.9992	.9959	.9982	1.0019	1.0064	1.0016		.9996	.9968	.9996	.9984	1.0004	1.0022
7			.9995	.9970	.9981	1.0028	1.0039	.9995	1.0105	.9984	.9970	.9984	.9966	.9988	1.0007
8			.9996	.9971	.9982	1.0027	1.0040	1.0007		.9999	.9985	.9999	.9976	1.0000	1.0019
9			.9989	.9964	.9979	1.0016	1.0041	1.0009	1.0042	1.0000	.9986	.9986	.9975	1.0001	1.0016
10			.9994	.9958	1.0028	1.0021	1.0031	1.0014		1.0003	.9976	.9989	.9974	.9999	1.0018
11			1.0004	.9970	1.0038	1.0034	1.0044	1.0010	.9942	.9989	.9982	.9989	.9977	1.0004	1.0019
12			.9991	.9965	1.0024	1.0017	1.0051	1.0006		.9983	.9983	.9983	.9977	1.0003	1.0020
13			.9992	.9966	1.0032	1.0031	1.0055	1.0010	.9952	.9987	.9987	.9987	.9977	1.0007	1.0018
14			.9996	.9956	1.0041	1.0024	1.0048	1.0006		.9979	.9973	.9993	.9974	.9999	1.0018
15			1.0001	.9967	1.0021	1.0029	1.0045	1.0008	.9968	.9990	.9977	1.0004	.9975	.9997	1.0019
16			.9992	.9958	1.0002	1.0022	1.0047	1.0018		.9992	.9965	1.0006	.9977	.9996	1.0021
17			.9985	.9949	1.0006	1.0011	1.0035	1.0004	1.0095	.9993	.9966	.9993	.9964	.9995	1.0013
18			.9988	.9957	.9996	1.0021	1.0053	1.0018		.9997	.9977	.9997	.9975	1.0002	1.0021
19			.9993	.9962	.9997	1.0023	1.0048	1.0019	.9970	.9993	.9979	1.0007	.9975	1.0007	1.0025
20			.9994	.9966	.9970	1.0028	1.0049	1.0017		.9994	.9973	1.0008	.9977	1.0001	1.0023
21			.9976	.9953	.9967	1.0009	1.0037	1.0001	1.0196	.9981	.9953	.9981	.9962	.9988	1.0009
MEAN			.9993	.9962	1.0010	1.0023	1.0043	1.0008	1.0041	.9990	.9975	.9992	.9974	.9998	1.0016
S.D.			.0006	.0006	.0029	.0006	.0009	.0007	.0080	.0007	.0009	.0009	.0005	.0005	.0005

27 MEAN S.D.
742.6 743.42 2.111
742.0 742.53 2.202
740.2 740.84 1.953
735.5 737.60 1.754
734.1 734.78 2.544
732.2 732.31 1.960
732.2 733.17 2.693
733.0 733.09 1.452
730.8 731.03 1.685
729.4 729.77 1.616
729.6 729.80 2.063
729.2 729.27 1.717
728.0 727.98 2.025
726.0 726.49 1.973
725.5 725.70 1.703
725.8 725.57 1.787
723.8 724.49 2.551
722.0 722.18 1.765
717.7 717.52 1.723
716.6 716.46 1.802
716.5 717.36 4.376

.9989
.9993
.9991
.9972
.9991
.9999
.9987
.9999
.9997
.9995
.9997
.9999
1.0000
.9993
.9997
1.0003
.9991
.9997
1.0002
1.0002
.9988

.9994
.0007

TABLE 4-19

FOURTH INTERCOMPARISON - NOVEMBER 18, 1980
 RUN 19: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	16:20:00		587.2	586.8	590.6	588.7	592.0	590.2	573.4	589.0	591.0	590.0	596.2	589.9	591.3
2	16:20:30		585.7	582.5	586.8	587.2	587.0	585.5		584.0	585.0	585.0	584.3	584.3	586.5
3	16:21:00		580.7	579.1	581.5	582.2	584.0	583.6	591.5	582.0	582.0	582.0	581.4	581.6	583.3
4	16:21:30		577.7	574.9	576.2	579.5	579.0	578.2		577.0	578.0	578.0	576.6	576.9	578.9
5	16:22:00		577.4	574.9	577.0	578.9	579.0	577.9	591.5	576.0	576.0	578.0	576.6	576.8	578.8
6	16:22:30		573.5	571.9	573.2	575.1	577.0	575.7		574.0	576.0	575.0	574.1	574.3	576.3
7	16:23:00		573.4	570.7	571.6	574.6	575.0	573.5	584.4	572.0	573.0	573.0	572.2	572.3	574.4
8	16:23:30		572.7	570.7	570.9	574.4	576.0	573.3		572.0	574.0	573.0	572.1	572.5	573.9
9	16:24:00		571.0	569.8	570.1	572.3	575.0	573.4	576.2	572.0	573.0	573.0	571.8	572.2	570.8
10	16:24:30		568.9	567.3	570.1	570.5	572.0	569.8		568.0	570.0	569.0	568.5	568.9	570.8
11	16:25:00		570.2	567.3	567.9	571.7	572.0	569.8	574.6	568.0	570.0	569.0	568.4	568.7	573.3
12	16:25:30		573.1	569.8	570.1	574.8	574.0	572.0		571.0	573.0	571.0	570.8	561.2	574.6
13	16:26:00		573.3	571.1	574.7	574.9	576.0	574.0	577.4	572.0	575.0	574.0	572.6	572.9	
14	16:26:30		577.8	573.2	574.7	578.5	577.0	574.8		573.0	575.0	574.0	573.6	573.8	577.3
15	16:27:00		574.9	573.2	577.7	576.4	578.0	576.5	555.2	575.0	576.0	575.0	575.0	575.2	577.3
16	16:27:30		572.3	570.7	571.6	574.0	575.0	574.3		573.0	574.0	573.0	572.8	572.9	575.0
17	16:28:00		571.8	569.8	572.4	573.5	574.0	573.2	575.8	572.0	573.0	573.0	572.0	571.6	574.1
18	16:28:30		572.5	569.8	573.9	574.3	574.0	572.6		571.0	572.0	572.0	571.3	571.2	573.5
19	16:29:00		571.6	569.8	569.4	573.1	575.0	572.4	570.3	571.0	572.0	572.0	571.3	571.2	573.3
20	16:29:30		571.2	569.8	570.9	573.0	574.0	572.4		571.0	572.5	572.0	571.2	571.0	573.3
21	16:30:00		569.8	568.1	569.4	571.3	572.0	570.8	573.0	570.0	571.0	571.0	569.7	569.6	572.0
1			.9969	.9963	1.0027	.9995	1.0051	1.0020	.9735	1.0000	1.0034	1.0017	1.0122	1.0015	1.0039
2			1.0007	.9952	1.0026	1.0033	1.0029	1.0004		.9978	.9995	.9995	.9983	.9983	1.0021
3			.9967	.9939	.9981	.9993	1.0023	1.0017	1.0152	.9989	.9989	.9989	.9979	.9982	1.0011
4			1.0002	.9954	.9976	1.0033	1.0025	1.0011		.9990	1.0007	1.0007	.9983	.9988	1.0023
5			.9984	.9941	.9978	1.0010	1.0012	.9993	1.0228	.9960	.9960	.9995	.9971	.9974	1.0009
6			.9979	.9951	.9974	1.0007	1.0040	1.0017		.9988	1.0023	1.0005	.9990	.9993	1.0028
7			.9993	.9946	.9962	1.0014	1.0021	.9995	1.0185	.9969	.9986	.9986	.9972	.9974	1.0010
8			.9995	.9960	.9964	1.0025	1.0053	1.0006		.9983	1.0018	1.0001	.9985	.9992	1.0016
9			.9977	.9956	.9961	.9999	1.0046	1.0018	1.0067	.9994	1.0011	1.0011	.9991	.9998	.9973
10			.9990	.9962	1.0011	1.0018	1.0044	1.0006		.9974	1.0009	.9992	.9983	.9990	1.0023
11			1.0003	.9952	.9963	1.0029	1.0035	.9996	1.0080	.9965	1.0000	.9982	.9972	.9977	1.0058
12			1.0031	.9973	.9979	1.0061	1.0047	1.0012		.9994	1.0029	.9994	.9991	.9823	1.0057
13			.9983	.9950	1.0013	1.0016	1.0036	1.0001	1.0060	.9966	1.0018	1.0001	.9976	.9982	
14			1.0046	.9966	.9992	1.0058	1.0032	.9993		.9962	.9997	.9980	.9973	.9976	1.0037
15			1.0009	.9979	1.0058	1.0035	1.0063	1.0037	.9666	1.0011	1.0028	1.0011	1.0011	1.0014	1.0051
16			.9983	.9955	.9971	1.0013	1.0030	1.0018		.9996	1.0013	.9996	.9992	.9994	1.0030
17			.9983	.9948	.9993	1.0012	1.0021	1.0007	1.0053	.9986	1.0004	1.0004	.9986	.9979	1.0023
18			1.0003	.9956	1.0027	1.0034	1.0029	1.0005		.9977	.9994	.9994	.9982	.9980	1.0020
19			.9998	.9966	.9959	1.0024	1.0057	1.0011	.9975	.9987	1.0004	1.0004	.9992	.9991	1.0027
20			.9988	.9964	.9983	1.0020	1.0037	1.0009		.9985	1.0011	1.0002	.9988	.9985	1.0025
21			.9986	.9957	.9979	1.0013	1.0025	1.0004	1.0043	.9990	1.0008	1.0008	.9985	.9983	1.0025
MEAN			.9994	.9957	.9989	1.0021	1.0036	1.0009	1.0022	.9983	1.0007	.9999	.9991	.9980	1.0025
S.D.			.0019	.0010	.0027	.0018	.0013	.0011	.0175	.0013	.0017	.0010	.0032	.0038	.0019

27	MEAN	S.D.
589.7	589.00	5.023
585.0	585.29	1.360
582.0	582.64	2.825
577.7	577.58	1.260
577.4	578.30	3.982
575.0	574.70	1.397
573.1	573.80	3.274
573.1	572.97	1.435
572.2	572.34	1.755
569.4	569.48	1.248
569.4	570.02	2.154
571.8	571.32	3.457
573.6	573.96	1.685
574.6	575.18	1.846
576.0	574.39	5.669
573.7	573.25	1.263
572.8	572.75	1.407
572.3	572.34	1.333
572.0	571.74	1.465
572.0	571.87	1.162
570.3	570.57	1.274

1.0012
.9995
.9989
1.0002
.9984
1.0005
.9988
1.0002
.9998
.9999
.9989
1.0008
.9994
.9990
1.0028
1.0003
1.0000
.9999
1.0004
1.0002
.9995

1.0000
.0010

TABLE 4-20

FOURTH INTERCOMPARISON - NOVEMBER 19, 1980
 RUN 20: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	10:01:00	888.0	886.3	883.3	886.8	885.0	888.0	887.3	894.3	883.0	886.0	885.0	886.6	885.6	887.1
2	10:01:30	890.5	888.2	884.1	888.3	888.1	890.0	888.0		885.0	887.0	887.0	888.0	886.8	888.6
3	10:02:00	892.0	889.4	885.0	889.5	883.9	890.0	889.8	898.5	886.0	888.0	888.0	888.7	887.6	889.3
4	10:02:30	892.0	890.2	886.7	890.1	889.1	891.0	890.8		886.0	889.0	889.0	889.8	888.7	890.4
5	10:03:00	894.5	891.9	888.3	891.9	891.2	893.0	891.8	901.0	888.0	890.5	891.0	891.0	890.0	891.7
6	10:03:30	894.5	892.3	888.3	892.6	894.3	894.0	892.8		889.0	891.5	891.0	892.2	891.2	892.6
7	10:04:00	893.0	891.5	887.5	891.6	889.1	892.0	892.0	901.0	888.0	890.0	891.0	891.0	889.8	891.5
8	10:04:30	894.0	891.5	887.5	891.6	891.2	892.0	892.0		889.0	890.0	891.0	891.2	890.1	891.8
9	10:05:00	895.0	892.8	888.3	892.6	892.2	892.0	892.4	896.9	889.0	891.0	891.0	891.7	890.6	892.2
10	10:05:30	893.0	893.0	889.2	892.7	893.3	893.0	893.5		890.0	891.0	892.0	892.4	891.3	892.8
11	10:06:00	895.0	893.1	890.0	893.6	893.3	894.0	893.9	899.5	890.0	892.0	893.0	893.3	892.1	893.7
12	10:06:30	894.0	892.4	889.2	892.3	890.2	894.0	893.5		890.0	891.0	892.0	892.9	891.7	893.3
13	10:07:00	894.0	893.4	888.3	893.2	889.1	894.0	893.2	901.0	890.0	891.0	892.0	892.6	891.4	893.0
14	10:07:30	896.0	893.6	890.0	893.9	891.2	895.0	894.2		891.0	892.5	892.0	893.7	892.7	894.1
15	10:08:00	897.0	894.7	891.7	894.8	892.2	897.0	895.2	903.6	892.0	894.0	894.0	894.9	893.7	895.2
16	10:08:30	899.0	897.5	893.4	896.9	898.5	899.0	897.0		893.0	896.0	895.0	896.7	895.6	897.2
17	10:09:00	900.0	898.1	895.1	897.7	896.4	900.0	898.3	907.7	894.0	897.0	896.0	898.1	897.0	898.4
18	10:09:30	901.0	899.0	895.1	898.9	900.6	900.0	899.4		895.0	898.0	898.0	898.9	897.8	899.2
19	10:10:00	899.0	899.1	895.9	900.2	899.5	900.0	899.3	906.7	896.0	897.5	898.0	898.9	897.8	899.3
20	10:10:30	901.0	901.3	897.6	901.5	899.5	902.0	901.4		897.0	899.0	900.0	901.1	899.8	901.3
21	10:11:00	904.5	903.6	900.2	903.2	900.6	904.0	904.0	911.8	900.0	902.0	903.0	903.6	902.5	903.8
1		1.0017	.9998	.9964	1.0003	.9983	1.0017	1.0009	1.0088	.9960	.9994	.9983	1.0001	.9990	1.0007
2		1.0033	1.0007	.9961	1.0008	1.0006	1.0027	1.0005		.9971	.9993	.9993	1.0005	.9991	1.0011
3		1.0035	1.0006	.9957	1.0007	.9944	1.0013	1.0011	1.0108	.9968	.9990	.9990	.9998	.9986	1.0005
4		1.0029	1.0009	.9970	1.0008	.9997	1.0018	1.0016		.9962	.9996	.9996	1.0005	.9992	1.0011
5		1.0031	1.0002	.9962	1.0002	.9994	1.0014	1.0001	1.0104	.9958	.9986	.9992	.9992	.9981	1.0000
6		1.0029	1.0004	.9959	1.0007	1.0026	1.0023	1.0010		.9967	.9995	.9989	1.0003	.9992	1.0007
7		1.0020	1.0003	.9958	1.0004	.9976	1.0009	1.0009	1.0110	.9964	.9986	.9997	.9997	.9984	1.0003
8		1.0035	1.0007	.9962	1.0008	1.0003	1.0012	1.0012		.9979	.9990	1.0001	1.0003	.9991	1.0010
9		1.0035	1.0010	.9960	1.0008	1.0004	1.0001	1.0006	1.0056	.9968	.9990	.9990	.9998	.9986	1.0004
10		1.0011	1.0011	.9968	1.0008	1.0014	1.0011	1.0016		.9977	.9988	1.0000	1.0004	.9992	1.0009
11		1.0020	.9999	.9964	1.0004	1.0001	1.0009	1.0008	1.0070	.9964	.9986	.9998	1.0001	.9987	1.0005
12		1.0023	1.0005	.9969	1.0003	.9980	1.0023	1.0017		.9978	.9989	1.0000	1.0010	.9997	1.0015
13		1.0017	1.0010	.9953	1.0008	.9962	1.0017	1.0008	1.0095	.9972	.9983	.9994	1.0001	.9980	1.0006
14		1.0033	1.0006	.9966	1.0010	.9980	1.0022	1.0013		.9977	.9994	.9989	1.0008	.9996	1.0012
15		1.0024	.9998	.9964	.9999	.9970	1.0024	1.0004	1.0097	.9968	.9990	.9990	1.0000	.9987	1.0004
16		1.0029	1.0012	.9966	1.0005	1.0023	1.0029	1.0006		.9962	.9995	.9984	1.0003	.9991	1.0009
17		1.0022	1.0001	.9967	.9996	.9982	1.0022	1.0003	1.0107	.9955	.9988	.9977	1.0001	.9988	1.0004
18		1.0028	1.0006	.9963	1.0005	1.0024	1.0017	1.0011		.9962	.9995	.9995	1.0005	.9993	1.0008
19		1.0000	1.0001	.9966	1.0014	1.0006	1.0011	1.0004	1.0086	.9967	.9984	.9989	.9999	.9987	1.0004
20		1.0010	1.0013	.9972	1.0015	.9993	1.0021	1.0014		.9965	.9987	.9998	1.0011	.9996	1.0013
21		1.0014	1.0004	.9966	.9999	.9970	1.0008	1.0008	1.0094	.9964	.9986	.9997	1.0004	.9991	1.0006
MEAN		1.0023	1.0005	.9964	1.0006	.9992	1.0017	1.0009	1.0092	.9967	.9990	.9993	1.0002	.9990	1.0007
S.D.		.0010	.0005	.0005	.0005	.0022	.0007	.0005	.0017	.0007	.0004	.0006	.0004	.0004	.0004

----- 27	MEAN	S.D.
885.3	886.51	2.618
886.7	887.59	1.705
887.2	888.86	3.374
888.5	889.38	1.620
890.1	891.73	3.041
890.9	891.94	1.814
889.6	891.24	3.108
889.9	890.91	1.557
890.5	891.88	2.122
891.2	892.03	1.306
891.8	893.22	2.230
891.4	891.99	1.507
891.3	892.50	2.920
892.4	893.02	1.647
893.3	894.89	2.882
895.2	896.43	1.865
896.9	898.05	3.124
897.4	898.45	1.771
897.4	898.97	2.508
899.5	900.14	1.514
902.3	903.27	2.756

.9986
.9990
.9981
.9990
.9982
.9988
.9982
.9989
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.9982
.9986
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.9993
.9989

.9987
.0004

TABLE 4-21

FOURTH INTERCOMPARISON - NOVEMBER 19, 1980
 RUN 21: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	10:23:00	913.0	911.8	908.8	911.8	918.2	915.0	913.0	920.1	913.0	912.0	912.0	909.9	911.6	913.0
2	10:23:30	914.0	912.4	908.8	912.6	917.1	916.0	913.5		913.0	912.0	912.0	910.2	912.0	913.3
3	10:24:00	916.0	913.7	909.7	913.5	918.2	917.0	913.7	920.1	913.0	912.5	912.0	910.8	912.6	914.0
4	10:24:30	916.0	914.4	910.5	913.9	917.1	917.0	914.6		914.0	913.5	913.0	911.5	913.2	914.5
5	10:25:00	918.0	914.8	911.4	914.7	919.2	918.0	915.8	917.5	916.0	915.0	914.0	912.7	914.5	915.8
6	10:25:30	917.0	914.8	911.4	914.6	917.1	918.0	915.9		915.0	914.5	914.0	912.6	914.5	915.7
7	10:26:00	916.0	915.5	911.4	914.7	921.3	917.0	915.4	924.2	915.0	914.0	914.0	912.1	914.1	915.2
8	10:26:30	918.0	915.7	911.4	915.1	920.3	918.0	915.9		915.0	914.0	914.0	912.8	914.7	915.8
9	10:27:00	918.0	917.4	913.0	917.6	915.1	918.0	916.7	925.8	916.0	915.0	915.0	913.7	915.4	916.8
10	10:27:30	920.0	917.3	913.0	917.1	918.2	918.0	917.4		917.0	916.0	916.0	914.2	915.9	917.2
11	10:28:00	919.0	917.6	913.9	917.3	918.2	919.0	917.9	925.8	918.0	916.0	916.0	914.4	916.3	917.5
12	10:28:30	918.5	918.1	914.7	918.0	920.3	919.0	918.0		918.0	917.0	917.0	915.0	917.0	918.3
13	10:29:00	922.0	917.5	914.7	917.3	923.4	920.0	919.3	925.8	919.0	918.0	918.0	915.6	917.5	918.6
14	10:29:30	918.0	918.0	913.9	917.5	922.4	920.0	918.8		919.0	917.0	917.0	914.9	916.9	917.9
15	10:30:00	917.0	917.9	914.7	917.5	924.5	919.0	918.9	924.8	919.0	916.0	917.0	915.1	917.2	918.3
16	10:30:30	920.0	918.7	913.9	918.4	925.5	920.0	918.6		919.0	917.0	917.0	915.3	917.2	918.4
17	10:31:00	921.0	918.7	915.6	918.0	922.4	921.0	919.6	926.4	919.0	918.0	918.0	916.1	918.2	919.2
18	10:31:30	922.0	920.1	916.4	919.6	925.5	922.0	920.5		920.0	919.0	919.0	916.8	919.0	920.1
19	10:32:00	922.0	920.4	916.4	919.5	927.6	922.0	920.9	928.9	921.0	919.0	919.0	917.2	919.5	920.4
20	10:32:30	923.0	920.7	917.3	920.3	921.3	921.0	921.6		922.0	920.0	920.0	917.6	919.6	920.6
21	10:33:00	924.0	920.6	916.4	919.8	925.5	921.0	921.7	928.9	921.0	919.0	920.0	917.5	919.7	920.6
1		1.0000	.9987	.9954	.9987	1.0057	1.0022	1.0000	1.0078	1.0000	.9989	.9989	.9966	.9985	1.0000
2		1.0014	.9996	.9957	.9998	1.0048	1.0035	1.0008		1.0003	.9992	.9992	.9972	.9992	1.0006
3		1.0022	.9997	.9953	.9995	1.0046	1.0033	.9997	1.0067	.9990	.9984	.9979	.9965	.9985	1.0001
4		1.0022	1.0004	.9961	.9999	1.0034	1.0033	1.0006		1.0000	.9994	.9989	.9972	.9991	1.0005
5		1.0028	.9993	.9956	.9992	1.0041	1.0028	1.0004	1.0022	1.0006	.9995	.9984	.9970	.9990	1.0004
6		1.0022	.9998	.9961	.9996	1.0023	1.0033	1.0010		1.0001	.9995	.9990	.9974	.9995	1.0008
7		1.0005	.9999	.9954	.9990	1.0063	1.0016	.9998	1.0094	.9994	.9983	.9983	.9962	.9984	.9996
8		1.0029	1.0004	.9957	.9997	1.0054	1.0029	1.0006		.9996	.9985	.9985	.9972	.9993	1.0005
9		1.0015	1.0009	.9961	1.0011	.9984	1.0015	1.0001	1.0100	.9994	.9983	.9983	.9968	.9987	1.0002
10		1.0037	1.0007	.9960	1.0005	1.0017	1.0015	1.0008		1.0004	.9993	.9993	.9973	.9992	1.0006
11		1.0016	1.0001	.9960	.9997	1.0007	1.0016	1.0004	1.0090	1.0005	.9983	.9983	.9966	.9987	1.0000
12		1.0010	1.0006	.9969	1.0005	1.0030	1.0016	1.0005		1.0005	.9994	.9994	.9972	.9994	1.0008
13		1.0033	.9984	.9954	.9982	1.0049	1.0012	1.0004	1.0075	1.0001	.9990	.9990	.9964	.9984	.9996
14		1.0003	1.0003	.9959	.9998	1.0051	1.0025	1.0012		1.0014	.9992	.9992	.9969	.9991	1.0002
15		.9986	.9996	.9961	.9992	1.0068	1.0008	1.0007	1.0071	1.0008	.9975	.9986	.9966	.9988	1.0000
16		1.0018	1.0004	.9952	1.0001	1.0078	1.0018	1.0003		1.0008	.9986	.9986	.9967	.9988	1.0001
17		1.0019	.9994	.9960	.9986	1.0034	1.0019	1.0004	1.0078	.9997	.9986	.9986	.9966	.9988	.9999
18		1.0023	1.0002	.9962	.9997	1.0061	1.0023	1.0006		1.0001	.9990	.9990	.9966	.9990	1.0002
19		1.0012	.9995	.9952	.9985	1.0073	1.0012	1.0000	1.0087	1.0002	.9980	.9980	.9960	.9985	.9995
20		1.0029	1.0004	.9967	1.0000	1.0011	1.0008	1.0014		1.0018	.9997	.9997	.9971	.9992	1.0003
21		1.0033	.9996	.9950	.9987	1.0049	1.0000	1.0008	1.0086	1.0000	.9978	.9989	.9962	.9986	.9996
MEAN		1.0018	.9999	.9958	.9995	1.0042	1.0020	1.0005	1.0077	1.0002	.9988	.9988	.9968	.9989	1.0002
S.D.		.0012	.0006	.0005	.0007	.0024	.0010	.0004	.0021	.0007	.0006	.0005	.0004	.0003	.0004

27	MEAN	S.D.
911.6	912.95	2.897
911.8	912.76	2.090
912.5	913.95	2.783
913.1	914.02	1.852
914.4	915.45	2.089
914.2	914.95	1.748
913.7	915.57	3.282
914.6	915.38	2.255
915.4	916.59	2.955
915.8	916.65	1.721
916.1	917.53	2.736
916.9	917.56	1.467
917.3	918.93	2.905
916.6	917.71	2.069
917.0	918.26	2.898
917.3	918.31	2.665
917.8	919.27	2.656
918.7	919.91	2.261
919.1	920.86	3.382
919.3	920.31	1.558
919.4	921.01	3.123

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.9984
.9990
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.0004

TABLE 4-22

FOURTH INTERCOMPARISON - NOVEMBER 19, 1980
 RUN 22: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	10:43:00	924.0	920.1	917.6	920.5	920.8	920.0	921.2	929.1	920.0	921.0	920.0	918.7	919.6	921.4
2	10:43:30	925.0	921.5	918.0	920.9	921.8	923.0	921.6		920.0	921.0	920.0	919.1	920.1	921.8
3	10:44:00	922.0	920.9	917.0	920.9	919.8	922.0	921.8	928.3	920.0	921.0	921.0	919.1	920.2	921.8
4	10:44:30	924.0	921.6	918.4	921.5	920.8	921.0	921.8		920.0	920.0	921.0	919.0	919.8	921.9
5	10:45:00	926.0	922.2	919.2	922.3	921.8	924.0	923.1	933.0	921.0	922.0	922.0	920.4	921.4	923.2
6	10:45:30	926.0	921.9	919.2	922.7	922.9	922.0	923.1		921.0	923.0	922.0	920.1	921.2	922.8
7	10:46:00	924.5	921.3	918.4	921.0	921.8	921.0	922.5	932.3	920.0	921.5	921.0	919.2	920.1	921.8
8	10:46:30	926.0	923.0	919.2	922.5	923.9	923.0	922.6		921.0	922.0	921.0	919.9	921.1	922.7
9	10:47:00	926.5	923.8	920.9	923.2	926.0	925.0	924.0	933.7	922.0	923.0	923.0	921.3	921.9	924.0
10	10:47:30	928.0	924.6	921.8	924.5	928.1	926.0	924.7		923.0	924.0	923.0	922.1	923.0	924.7
11	10:48:00	928.0	925.2	921.8	924.9	926.0	926.0	925.6	934.6	923.0	924.0	924.0	922.1	923.2	924.9
12	10:48:30	929.0	925.4	921.8	924.6	927.0	926.0	925.6		924.0	925.0	924.0	922.5	923.4	925.2
13	10:49:00	929.0	926.4	923.5	926.2	924.9	926.0	926.3	936.9	925.0	925.0	925.0	923.2	924.1	926.0
14	10:49:30	929.0	926.6	922.6	925.6	928.1	926.0	926.4		925.0	925.0	924.0	922.9	923.8	925.5
15	10:50:00	929.0	925.4	921.8	925.0	926.0	926.0	925.0	935.9	923.0	925.0	924.0	922.5	923.4	925.0
16	10:50:30	928.0	924.9	921.4	924.6	926.0	925.0	925.3		923.0	924.0	924.0	922.2	923.2	924.9
17	10:51:00	928.5	925.7	922.6	925.2	927.0	926.0	925.2	935.9	923.0	924.0	924.0	922.2	923.3	924.9
18	10:51:30	929.0	924.8	920.9	924.7	928.1	927.0	925.5		923.0	924.5	924.0	921.9	922.6	924.6
19	10:52:00	928.0	924.3	920.9	924.1	926.0	927.0	924.8	936.4	923.0	924.0	923.0	921.9	922.7	924.2
20	10:52:30	929.0	924.3	922.2	924.1	929.1	928.0	924.9		923.0	924.0	923.0	922.2	922.9	924.6
21	10:53:00	928.5	924.9	921.4	924.0	935.3	927.0	924.5	935.2	922.0	923.0	923.0	921.9	922.6	924.3
1		1.0033	.9991	.9964	.9995	.9998	.9990	1.0003	1.0089	.9990	1.0001	.9990	.9976	.9985	1.0005
2		1.0043	1.0005	.9967	.9999	1.0008	1.0021	1.0006		.9989	1.0000	.9989	.9979	.9990	1.0008
3		1.0010	.9998	.9956	.9998	.9986	1.0010	1.0008	1.0078	.9988	.9999	.9999	.9979	.9990	1.0008
4		1.0035	1.0009	.9974	1.0008	1.0000	1.0002	1.0011		.9991	.9991	1.0002	.9980	.9989	1.0012
5		1.0034	.9992	.9960	.9993	.9988	1.0012	1.0002	1.0109	.9979	.9990	.9990	.9973	.9984	1.0003
6		1.0042	.9998	.9969	1.0007	1.0009	.9999	1.0011		.9988	1.0010	.9999	.9978	.9990	1.0008
7		1.0029	.9995	.9963	.9991	1.0000	.9991	1.0008	1.0114	.9980	.9997	.9991	.9972	.9981	1.0000
8		1.0042	1.0010	.9969	1.0004	1.0020	1.0010	1.0005		.9988	.9999	.9988	.9976	.9989	1.0007
9		1.0026	.9997	.9966	.9991	1.0021	1.0010	.9999	1.0104	.9978	.9988	.9988	.9970	.9976	.9999
10		1.0039	1.0003	.9972	1.0001	1.0040	1.0018	1.0004		.9985	.9996	.9985	.9976	.9985	1.0004
11		1.0031	1.0001	.9964	.9997	1.0009	1.0009	1.0005	1.0102	.9977	.9988	.9988	.9967	.9979	.9997
12		1.0045	1.0006	.9967	.9998	1.0023	1.0013	1.0008		.9991	1.0002	.9991	.9975	.9985	1.0004
13		1.0031	1.0003	.9972	1.0001	.9987	.9999	1.0002	1.0116	.9988	.9988	.9988	.9968	.9978	.9999
14		1.0039	1.0013	.9970	1.0003	1.0030	1.0007	1.0011		.9996	.9996	.9985	.9973	.9983	1.0002
15		1.0039	1.0000	.9961	.9996	1.0006	1.0006	.9996	1.0113	.9974	.9996	.9985	.9969	.9978	.9996
16		1.0040	1.0006	.9968	1.0003	1.0018	1.0007	1.0011		.9986	.9997	.9997	.9977	.9988	1.0006
17		1.0033	1.0003	.9970	.9998	1.0017	1.0006	.9998	1.0113	.9974	.9985	.9985	.9965	.9977	.9994
18		1.0048	1.0002	.9960	1.0001	1.0038	1.0026	1.0010		.9983	.9999	.9994	.9971	.9979	1.0000
19		1.0033	.9993	.9957	.9991	1.0012	1.0022	.9999	1.0124	.9979	.9990	.9979	.9967	.9976	.9992
20		1.0047	.9996	.9974	.9994	1.0048	1.0036	1.0003		.9982	.9993	.9982	.9974	.9981	1.0000
21		1.0033	.9995	.9957	.9985	1.0107	1.0017	.9990	1.0106	.9963	.9974	.9974	.9962	.9970	.9988
MEAN		1.0036	1.0001	.9966	.9998	1.0017	1.0010	1.0004	1.0106	.9983	.9994	.9989	.9973	.9983	1.0001
S.D.		.0008	.0006	.0006	.0006	.0027	.0011	.0006	.0013	.0003	.0007	.0007	.0005	.0006	.0006

----- 27	MEAN	S.D.
920.1	920.94	2.652
920.7	921.04	1.696
920.4	921.08	2.384
920.4	920.80	1.390
921.9	922.90	3.201
921.5	922.10	1.602
920.7	921.81	3.229
921.4	922.09	1.710
922.8	924.07	3.102
923.6	924.36	1.925
923.7	925.13	3.081
924.1	924.83	1.822
924.5	926.13	3.295
924.5	925.36	1.815
924.0	925.40	3.377
924.0	924.32	1.638
923.7	925.41	3.362
923.6	924.59	2.273
923.5	924.92	3.672
923.7	924.64	2.358
923.5	925.41	4.418

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.0005

TABLE 4-23

FOURTH INTERCOMPARISON - NOVEMBER 19, 1980
 RUN 23: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	11:03:00	935.0	931.1	927.8	931.4	940.3	930.0	931.7	941.7	929.0	930.5	930.0	929.3	930.9	931.8
2	11:03:30	935.0	931.9	927.8	931.3	935.1	930.0	932.0		930.0	930.5	930.0	929.3	930.5	932.0
3	11:04:00	936.0	932.1	928.7	931.4	935.1	931.0	932.5	942.3	930.0	931.0	930.0	929.8	931.3	932.5
4	11:04:30	935.0	932.7	929.1	932.8	936.1	931.0	933.0		931.0	932.0	931.0	930.3	931.8	933.0
5	11:05:00	935.0	932.5	928.7	932.4	934.1	929.0	932.8	939.8	931.0	931.0	931.0	929.8	931.2	932.6
6	11:05:30	936.0	932.9	929.5	933.0	932.0	928.0	933.9		932.0	930.5	933.0	930.5	931.7	933.6
7	11:06:00	936.0	933.5	929.5	932.7	932.0	929.0	933.5	942.5	932.0	932.0	933.0	930.9	932.6	934.1
8	11:06:30	937.0	935.1	931.2	934.3	936.1	931.0	934.9		933.0	933.0	934.0	931.8	933.4	935.4
9	11:07:00	937.0	934.8	931.2	934.8	935.1	933.0	935.8	942.4	934.0	934.0	935.0	933.1	934.4	935.9
10	11:07:30	939.0	935.8	932.1	935.7	935.1	934.0	936.0		934.0	935.0	935.0	933.5	934.9	936.6
11	11:08:00	940.0	935.6	932.1	936.3	938.2	935.0	937.0	945.3	935.0	936.0	935.0	933.5	935.5	936.8
12	11:08:30	940.0	936.4	932.9	936.4	938.2	935.0	936.6		934.0	936.0	935.0	934.0	935.6	936.9
13	11:09:00	940.0	936.9	932.9	936.4	940.3	935.0	937.2	947.0	935.0	936.0	936.0	934.0	935.9	937.0
14	11:09:30	939.0	936.8	932.9	936.4	939.3	935.0	936.9		934.0	935.5	935.0	933.7	935.8	937.0
15	11:10:00	940.0	937.3	933.8	937.2	943.4	935.0	936.9	946.0	935.0	936.0	935.0	934.2	935.9	937.5
16	11:10:30	939.0	937.5	934.2	937.5	941.3	934.0	938.1		935.0	936.0	936.0	934.7	936.7	937.9
17	11:11:00	940.0	937.5	934.6	937.2	946.5	935.0	938.4	946.3	936.0	937.0	936.0	935.3	936.9	938.4
18	11:11:30	940.0	937.2	933.8	936.5	941.3	935.0	938.0		935.0	937.0	936.0	934.9	936.8	937.9
19	11:12:00	941.0	937.8	933.8	936.6	942.4	936.0	937.9	948.1	935.0	937.0	935.0	934.8	936.7	937.8
20	11:12:30	941.0	937.8	934.6	937.7	937.2	936.0	938.4		936.0	937.0	936.0	935.0	936.9	937.8
21	11:13:00	941.0	938.2	934.6	938.0	943.4	935.0	938.4	949.4	936.0	936.5	936.0	935.1	937.1	938.3
1		1.0032	.9990	.9954	.9993	1.0088	.9978	.9996	1.0103	.9947	.9983	.9978	.9970	.9988	.9997
2		1.0042	1.0009	.9965	1.0002	1.0043	.9988	1.0010		.9988	.9994	.9988	.9981	.9994	1.0010
3		1.0040	.9998	.9962	.9991	1.0030	.9986	1.0002	1.0107	.9976	.9986	.9976	.9973	.9989	1.0002
4		1.0031	1.0006	.9968	1.0007	1.0043	.9988	1.0009		.9968	.9999	.9988	.9980	.9996	1.0009
5		1.0031	1.0004	.9963	1.0003	1.0021	.9966	1.0007	1.0082	.9988	.9988	.9988	.9975	.9990	1.0005
6		1.0043	1.0010	.9973	1.0011	1.0000	.9957	1.0020		1.0000	.9984	1.0011	.9984	.9997	1.0017
7		1.0032	1.0005	.9962	.9997	.9989	.9957	1.0005	1.0102	.9989	.9989	1.0000	.9977	.9996	1.0012
8		1.0034	1.0014	.9972	1.0005	1.0025	.9970	1.0012		.9992	.9992	1.0002	.9979	.9996	1.0017
9		1.0022	.9998	.9960	.9998	1.0002	.9979	1.0009	1.0080	.9990	.9990	1.0000	.9980	.9994	1.0010
10		1.0042	1.0008	.9968	1.0007	1.0000	.9988	1.0010		.9988	.9999	.9999	.9983	.9998	1.0016
11		1.0039	.9992	.9954	.9999	1.0019	.9985	1.0007	1.0095	.9985	.9996	.9985	.9969	.9991	1.0004
12		1.0044	1.0006	.9968	1.0006	1.0025	.9991	1.0008		.9980	1.0001	.9991	.9980	.9997	1.0011
13		1.0032	.9999	.9957	.9994	1.0036	.9979	1.0002	1.0107	.9979	.9990	.9990	.9968	.9989	1.0000
14		1.0033	1.0010	.9968	1.0006	1.0037	.9991	1.0011		.9980	.9996	.9991	.9977	.9999	1.0012
15		1.0029	1.0001	.9963	1.0000	1.0066	.9976	.9996	1.0093	.9976	.9987	.9976	.9967	.9986	1.0003
16		1.0025	1.0009	.9973	1.0009	1.0049	.9971	1.0015		.9982	.9993	.9993	.9979	1.0000	1.0013
17		1.0020	.9994	.9963	.9990	1.0089	.9967	1.0003	1.0087	.9978	.9988	.9978	.9970	.9987	1.0003
18		1.0034	1.0004	.9968	.9997	1.0048	.9981	1.0013		.9981	1.0002	.9991	.9980	1.0000	1.0012
19		1.0035	1.0001	.9958	.9988	1.0050	.9982	1.0002	1.0111	.9971	.9992	.9971	.9969	.9989	1.0001
20		1.0043	1.0009	.9975	1.0008	1.0003	.9990	1.0015		.9990	1.0000	.9990	.9979	.9999	1.0009
21		1.0030	1.0000	.9961	.9998	1.0055	.9966	1.0002	1.0119	.9976	.9982	.9976	.9967	.9988	1.0001
	MEAN	1.0034	1.0003	.9965	1.0000	1.0034	.9978	1.0007	1.0099	.9983	.9992	.9989	.9976	.9993	1.0008
	S.D.	.0007	.0006	.0006	.0007	.0028	.0011	.0006	.0012	.0008	.0006	.0010	.0006	.0005	.0006

27	MEAN	S.D.	
930.3	932.05	3.978	
929.9	931.09	2.027	
930.5	932.28	3.379	
931.0	932.13	1.841	
931.0	932.13	2.736	
931.5	932.01	2.001	
931.7	933.00	3.146	
932.9	933.79	1.800	
933.8	934.95	2.480	
934.4	935.08	1.609	
934.5	936.39	3.093	
935.1	935.86	1.811	
935.0	936.97	3.394	
934.9	935.87	1.854	
935.5	937.25	3.433	
935.8	936.69	2.026	
936.5	938.11	3.650	
935.8	936.80	2.041	
936.1	937.73	3.660	
936.1	936.96	1.601	
936.4	938.23	3.875	

.9981
 .9987
 .9981
 .9988
 .9988
 .9995
 .9986
 .9990
 .9988
 .9993
 .9980
 .9992
 .9979
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 .9989
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 .9991
 .9981

.9986
 .0005

TABLE 4-24

FOURTH INTERCOMPARISON - NOVEMBER 19, 1980
 RUN 24: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	11:23:00	941.0	939.0	935.5	939.1	939.5	941.0	940.1	950.0	938.0	940.5	939.0	937.0	938.8	940.3
2	11:23:30	941.0	938.3	935.1	938.8	942.6	940.0	938.9		938.0	939.5	938.0	936.3	938.0	939.8
3	11:24:00	939.5	938.4	935.1	938.8	941.5	942.0	939.3	948.8	938.0	939.0	939.0	936.4	938.2	939.8
4	11:24:30	936.0	939.4	935.1	939.4	941.5	938.0	937.9		939.0	938.5	941.0	936.9	938.1	940.6
5	11:25:00	938.0	939.6	935.1	939.7	941.5	939.0	940.8	948.2	940.0	940.0	943.0	937.3	938.6	941.3
6	11:25:30	941.0	939.5	935.9	939.4	939.5	940.0	940.9		940.0	941.0	942.0	937.3	939.1	941.8
7	11:26:00	940.0	940.2	936.8	940.5	942.6	940.0	941.0	949.6	940.0	942.0	943.0	937.8	939.4	942.0
8	11:26:30	939.0	940.2	935.9	940.3	940.5	940.0	941.3		941.0	940.0	944.0	937.8	939.2	941.5
9	11:27:00	942.0	941.1	936.8	941.0	944.7	942.0	941.3	950.2	941.0	943.0	942.0	938.3	940.1	941.9
10	11:27:30	942.0	940.8	936.8	940.9	942.6	943.0	941.2		941.0	942.5	941.0	938.1	940.2	941.7
11	11:28:00	943.0	942.1	938.4	942.3	944.7	945.0	942.2	949.1	941.0	944.0	942.0	939.2	941.4	942.8
12	11:28:30	944.0	941.8	938.4	942.4	945.7	945.0	942.7		942.0	944.0	943.0	939.8	941.7	943.6
13	11:29:00	944.0	942.8	938.4	942.1	943.6	945.0	942.7	952.0	942.0	943.5	943.0	936.6	941.9	943.8
14	11:29:30	945.0	943.0	938.9	943.0	945.7	946.0	942.9		942.0	944.0	943.0	940.0	942.0	943.8
15	11:30:00	945.0	942.7	939.3	942.3	942.6	947.0	943.3	953.2	942.0	944.5	942.0	940.2	942.3	943.9
16	11:30:30	945.0	943.3	939.7	943.0	945.7	948.0	943.3		942.0	944.0	943.0	940.4	942.4	943.9
17	11:31:00	944.0	942.8	938.4	942.8	943.6	946.0	942.3	951.0	941.0	942.0	942.0	939.8	941.7	943.1
18	11:31:30	944.0	941.9	938.4	941.8	939.5	946.0	942.6		941.0	943.0	942.0	939.9	941.8	943.3
19	11:32:00	943.0	942.1	938.4	942.2	946.8	944.0	942.3	950.0	941.0	943.0	942.0	939.5	941.2	943.2
20	11:32:30	943.0	941.8	938.9	941.9	942.6	943.0	942.7		942.0	943.0	943.0	939.5	941.3	943.5
21	11:33:00	943.0		938.4	942.3		944.0	942.7	952.6	942.0	943.0	944.0	939.6	941.1	943.4
1		1.0013	.9991	.9954	.9992	.9997	1.0013	1.0003	1.0108	.9981	1.0007	.9991	.9970	.9989	1.0005
2		1.0024	.9995	.9961	1.0001	1.0041	1.0014	1.0002		.9992	1.0008	.9992	.9974	.9992	1.0011
3		1.0000	.9989	.9953	.9993	1.0022	1.0027	.9998	1.0099	.9984	.9995	.9995	.9967	.9986	1.0003
4		.9972	1.0009	.9963	1.0009	1.0031	.9994	.9993		1.0004	.9999	1.0026	.9982	.9995	1.0021
5		.9978	.9995	.9947	.9996	1.0015	.9989	1.0008	1.0086	.9999	.9999	1.0031	.9970	.9984	1.0013
6		1.0013	.9997	.9959	.9996	.9997	1.0002	1.0012		1.0002	1.0013	1.0024	.9974	.9993	1.0022
7		.9990	.9992	.9956	.9995	1.0017	.9990	1.0000	1.0092	.9990	1.0011	1.0022	.9966	.9983	1.0011
8		.9989	1.0002	.9956	1.0003	1.0005	1.0000	1.0013		1.0010	1.0000	1.0042	.9976	.9991	1.0016
9		1.0003	.9994	.9948	.9992	1.0032	1.0003	.9996	1.0090	.9992	1.0014	1.0003	.9964	.9983	1.0002
10		1.0012	.9999	.9957	1.0001	1.0019	1.0023	1.0004		1.0002	1.0018	1.0002	.9971	.9993	1.0009
11		1.0005	.9995	.9956	.9997	1.0023	1.0026	.9996	1.0070	.9984	1.0015	.9994	.9965	.9988	1.0003
12		1.0015	.9992	.9956	.9998	1.0033	1.0026	1.0001		.9994	1.0015	1.0005	.9971	.9991	1.0011
13		1.0012	.9999	.9953	.9992	1.0006	1.0023	.9998	1.0097	.9991	1.0007	1.0001	.9933	.9990	1.0010
14		1.0022	1.0001	.9957	1.0001	1.0029	1.0032	1.0000		.9990	1.0011	1.0001	.9969	.9990	1.0009
15		1.0016	.9992	.9955	.9987	.9990	1.0037	.9998	1.0103	.9984	1.0011	.9984	.9965	.9987	1.0004
16		1.0018	1.0000	.9962	.9997	1.0026	1.0050	1.0000		.9987	1.0008	.9997	.9970	.9991	1.0007
17		1.0013	1.0000	.9953	1.0000	1.0008	1.0034	.9995	1.0087	.9981	.9991	.9991	.9968	.9988	1.0003
18		1.0022	1.0000	.9963	.9999	.9974	1.0043	1.0007		.9990	1.0012	1.0001	.9979	.9999	1.0015
19		1.0004	.9994	.9955	.9995	1.0044	1.0014	.9996	1.0078	.9982	1.0004	.9993	.9966	.9985	1.0006
20		1.0011	.9998	.9967	.9999	1.0007	1.0011	1.0008		1.0000	1.0011	1.0011	.9974	.9993	1.0016
21		1.0001		.9952	.9994		1.0012	.9998	1.0103	.9991	1.0001	1.0012	.9965	.9981	1.0005
	MEAN	1.0006	.9997	.9956	.9997	1.0016	1.0017	1.0001	1.0092	.9992	1.0007	1.0006	.9969	.9989	1.0010
	S.D.	.0014	.0005	.0005	.0005	.0018	.0017	.0006	.0012	.0008	.0007	.0015	.0009	.0004	.0006

-----	MEAN	S.D.
27		
938.5	939.82	3.183
937.9	938.73	1.862
938.4	939.48	3.084
938.9	938.59	1.813
939.0	940.07	2.931
939.4	939.77	1.651
939.6	940.97	2.913
939.9	940.04	1.852
940.2	941.71	2.990
940.1	940.85	1.700
940.9	942.54	2.556
941.8	942.56	1.930
941.7	942.87	3.316
941.8	942.94	1.983
942.2	943.50	3.261
942.0	943.26	2.100
941.7	942.81	2.869
941.5	941.91	1.919
941.2	942.66	2.798
941.4	941.97	1.354
941.5	942.89	3.346

.9986
 .9991
 .9989
 1.0003
 .9989
 .9996
 .9985
 .9998
 .9984
 .9992
 .9983
 .9952
 .9988
 .9988
 .9986
 .9987
 .9988
 .9996
 .9985
 .9994
 .9985

.9990
 .0005

TABLE 4-25

FOURTH INTERCOMPARISON - NOVEMBER 19, 1980
 RUN 25: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	11:51:00	945.0	940.8	937.0	940.5	946.0	946.0	941.5	951.5	939.0	941.0	939.0	939.3	939.9	941.5
2	11:51:30	944.5	941.2	937.0	940.7	945.0	943.0	941.0		939.0	941.0	939.0	939.4	939.8	941.5
3	11:52:00	945.0	940.4	937.4	941.2	942.9	944.0	942.2	950.6	940.0	941.0	940.0	939.5	939.8	941.9
4	11:52:30	945.0	940.7	937.4	940.8	942.9	944.0	942.1		940.0	941.0	940.0	939.7	940.3	941.9
5	11:53:00	945.0	941.1	937.8	941.2	942.9	942.0	942.2	951.0	940.0	941.0	940.0	939.6	939.9	941.9
6	11:53:30	946.0	941.5	937.8	941.3	942.9	942.0	942.5		941.0	941.0	941.0	940.0	940.4	942.4
7	11:54:00	945.0	941.7	937.4	940.9	945.0	943.0	942.4	950.9	940.0	941.0	941.0	939.5	940.2	942.1
8	11:54:30	945.0	940.6	937.8	940.3	943.9	942.0	941.9		940.0	940.5	940.0	939.8	940.2	942.1
9	11:55:00	946.0	941.8	937.8	941.3	946.0	943.0	942.5	952.1	941.0	942.0	941.0	939.8	940.6	942.7
10	11:55:30	946.0	941.5	938.7	941.1	942.9	944.0	942.3		940.0	942.0	940.0	939.7	940.6	942.3
11	11:56:00	946.0	941.7	937.8	940.9	941.8	943.0	942.1	949.2	940.0	942.0	940.0	940.1	940.8	942.5
12	11:56:30	945.0	941.3	937.0	940.6	941.8	944.0	941.5		939.0	941.0	939.0	938.8	939.9	941.4
13	11:57:00	944.0	940.3	937.0	940.0	941.8	944.0	941.2	948.9	939.0	941.0	939.0	938.7	939.6	941.1
14	11:57:30	944.0	940.6	936.6	940.4	942.9	941.0	941.1		939.0	940.0	938.0	937.9	938.6	940.5
15	11:58:00	945.0	941.0	937.0	940.9	941.8	942.0	941.7	950.8	940.0	940.5	939.0	939.0	939.7	941.5
16	11:58:30	946.0	941.9	937.8	941.2	945.0	944.0	942.4		940.0	942.0	940.0	939.5	940.7	942.4
17	11:59:00	946.0	940.7	937.8	941.0	949.1	944.0	941.9	948.1	940.0	942.0	940.0	939.6	940.7	942.3
18	11:59:30	946.0	941.5	937.8	941.2	948.1	945.0	942.0		939.0	941.5	939.0	939.8	940.9	942.3
19	12:00:00	946.0	941.9	938.7	941.2	948.1	944.0	942.3	950.5	940.0	941.0	939.0	939.6	940.5	942.2
20	12:00:30	945.0	942.0	937.8	941.6	945.0	942.0	942.1		940.0	940.0	939.0	939.3	940.1	942.3
21	12:01:00	945.5	941.3	937.8	940.6	943.9	941.0	942.5	949.7	941.0	941.0	942.0	940.0	940.6	942.9
1		1.0033	.9989	.9948	.9985	1.0044	1.0044	.9996	1.0102	.9969	.9991	.9969	.9973	.9979	.9996
2		1.0038	1.0003	.9959	.9998	1.0044	1.0023	1.0001		.9980	1.0001	.9980	.9984	.9989	1.0007
3		1.0035	.9986	.9954	.9994	1.0012	1.0024	1.0005	1.0094	.9982	.9992	.9982	.9976	.9980	1.0002
4		1.0041	.9995	.9960	.9996	1.0018	1.0030	1.0010		.9988	.9998	.9988	.9984	.9991	1.0008
5		1.0034	.9993	.9958	.9994	1.0012	1.0002	1.0004	1.0098	.9981	.9992	.9981	.9977	.9980	1.0001
6		1.0048	1.0000	.9961	.9998	1.0015	1.0005	1.0011		.9995	.9995	.9995	.9984	.9988	1.0010
7		1.0031	.9996	.9950	.9987	1.0031	1.0010	1.0003	1.0094	.9978	.9989	.9989	.9973	.9980	1.0000
8		1.0041	.9995	.9965	.9991	1.0030	1.0010	1.0009		.9988	.9994	.9988	.9986	.9990	1.0011
9		1.0036	.9992	.9949	.9986	1.0036	1.0004	.9999	1.0101	.9983	.9994	.9983	.9971	.9979	1.0001
10		1.0047	.9999	.9969	.9995	1.0014	1.0026	1.0008		.9983	1.0004	.9983	.9980	.9990	1.0003
11		1.0043	.9997	.9956	.9989	.9998	1.0011	1.0001	1.0077	.9979	1.0000	.9979	.9980	.9988	1.0006
12		1.0045	1.0006	.9960	.9998	1.0011	1.0035	1.0008		.9981	1.0003	.9981	.9979	.9991	1.0007
13		1.0031	.9992	.9957	.9989	1.0008	1.0031	1.0002	1.0084	.9978	1.0000	.9978	.9975	.9985	1.0001
14		1.0043	1.0007	.9964	1.0004	1.0031	1.0011	1.0012		.9990	1.0000	.9979	.9978	.9985	1.0006
15		1.0039	.9996	.9954	.9995	1.0005	1.0007	1.0004	1.0101	.9986	.9991	.9975	.9975	.9983	1.0002
16		1.0046	1.0002	.9959	.9995	1.0035	1.0025	1.0008		.9982	1.0003	.9982	.9977	.9990	1.0008
17		1.0039	.9983	.9952	.9986	1.0072	1.0018	.9996	1.0062	.9976	.9997	.9976	.9971	.9983	1.0000
18		1.0045	.9997	.9958	.9994	1.0067	1.0034	1.0002		.9970	.9997	.9970	.9979	.9991	1.0005
19		1.0038	.9995	.9961	.9987	1.0060	1.0017	.9999	1.0086	.9974	.9985	.9964	.9970	.9980	.9998
20		1.0040	1.0008	.9964	1.0004	1.0040	1.0008	1.0009		.9987	.9987	.9977	.9980	.9988	1.0012
21		1.0037	.9992	.9955	.9985	1.0020	.9989	1.0005	1.0081	.9989	.9989	1.0000	.9978	.9985	1.0009
MEAN		1.0040	.9996	.9958	.9993	1.0029	1.0017	1.0004	1.0089	.9982	.9995	.9981	.9978	.9985	1.0005
S.D.		.0005	.0007	.0005	.0006	.0021	.0013	.0005	.0013	.0006	.0006	.0008	.0005	.0004	.0004

-----	27	MEAN	S.D.
	940.1	941.87	3.727
	940.2	940.88	2.167
	940.0	941.73	3.107
	940.5	941.16	1.917
	941.1	941.78	3.038
	941.1	941.49	1.805
	941.1	942.08	3.129
	941.3	941.10	1.810
	941.1	942.58	3.365
	941.1	941.59	1.893
	941.5	941.96	2.691
	940.1	940.74	2.080
	940.0	941.04	2.864
	939.1	939.98	1.983
	940.1	941.33	3.168
	940.5	941.67	2.224
	941.1	942.29	3.197
	940.9	941.79	2.851
	941.1	942.41	3.396
	940.7	941.21	2.088
	940.9	942.05	2.757

A-164

.9981
.9993
.9982
.9993
.9993
.9996
.9990
1.0002
.9984
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.9989
.9991
.9987
.9988
.9987
.9991
.9986
.9995
.9988

.9990
.0005

TABLE 4-26

FOURTH INTERCOMPARISON - NOVEMBER 19, 1980
 RUN 26: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	INSTRUMENT IDENTIFICATION NUMBER													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	12:12:00	943.0	939.3	936.4	940.2	944.9	941.0	941.1	947.6	939.0	939.0	940.0	938.2	938.9	941.6
2	12:12:30	942.5	939.3	935.6	939.3	941.8	940.0	940.5		939.0	938.0	940.0	937.5	938.4	940.7
3	12:13:00	942.0	939.5	936.4	940.2	942.8	942.0	940.5	949.0	939.0	938.0	940.0	937.7	938.8	941.0
4	12:13:30	942.0	939.3	936.4	940.0	941.8	942.0	940.3		938.0	938.5	939.0	937.8	938.3	941.0
5	12:14:00	942.0	940.4	936.4	940.3	944.9	942.0	940.6	949.1	939.0	938.0	939.0	937.8	938.4	941.4
6	12:14:30	943.0	940.3	936.4	940.7	944.9	943.0	940.7		939.0	939.0	939.0	938.2	939.2	941.6
7	12:15:00	938.0	939.9	936.4	940.2	943.9	941.0	940.3	946.3	939.0	938.0	939.0	937.6	938.3	941.0
8	12:15:30	941.0	940.2	937.3	940.8	947.0	939.0	941.1		940.0	939.0	941.0	938.2	938.5	942.2
9	12:16:00	941.5	939.3	936.4	939.5	938.6	937.0	940.3	948.8	939.0	938.0	942.0	937.2	937.2	941.6
10	12:16:30	941.0	937.8	934.7	938.6	942.8	937.0	939.5		938.0	937.5	940.0	936.5	937.2	941.0
11	12:17:00	940.5	937.1	933.9	937.5	940.7	936.0	938.3	947.8	937.0	936.0	938.0	935.2	936.1	939.8
12	12:17:30	939.0	937.5	933.9	937.8	939.7	936.0	937.7		936.0	935.5	938.0	934.9	935.3	939.5
13	12:18:00	939.0	937.4	933.0	937.5	938.6	936.0	937.8	945.9	936.0	935.0	938.0	934.9	935.0	939.4
14	12:18:30	939.5	937.5	933.9	937.4	938.6	937.0	937.5		936.0	935.0	938.0	935.1	935.7	939.6
15	12:19:00	939.0	937.7	933.9	937.6	939.7	938.0	937.7	946.4	937.0	935.5	938.0	935.4	935.9	939.6
16	12:19:30	939.0	937.3	933.0	937.1	939.7	938.0	937.7		936.0	935.0	937.0	935.4	935.0	938.7
17	12:20:00	938.0	936.2	932.2	936.0	939.7	938.0	937.0	946.2	936.0	934.0	935.0	934.0	934.5	937.6
18	12:20:30	936.0	936.5	932.2	936.3	939.7	936.0	936.5		935.0	935.0	937.0	933.9	934.3	938.2
19	12:21:00	936.0	935.2	931.3	935.5	940.7	935.0	936.2	945.6	935.0	932.5	936.0	932.9	933.2	937.0
20	12:21:30	937.5	936.6	932.2	936.3	939.7	936.0	936.1		935.0	934.0	936.0	933.7	933.7	938.3
21	12:22:00	938.5	937.2	933.0	937.0	939.7	937.0	937.2		936.0	935.0	937.0	934.9	935.2	939.1
1		1.0025	.9986	.9955	.9996	1.0046	1.0004	1.0005	1.0074	.9983	.9983	.9993	.9974	.9982	1.0010
2		1.0034	.9999	.9960	.9999	1.0026	1.0007	1.0012		.9996	.9986	1.0007	.9980	.9990	1.0014
3		1.0017	.9991	.9958	.9998	1.0026	1.0017	1.0001	1.0092	.9985	.9975	.9996	.9972	.9983	1.0007
4		1.0027	.9998	.9967	1.0005	1.0025	1.0027	1.0009		.9984	.9990	.9995	.9982	.9987	1.0016
5		1.0016	.9999	.9956	.9998	1.0046	1.0016	1.0001	1.0091	.9984	.9973	.9984	.9971	.9977	1.0009
6		1.0029	1.0000	.9959	1.0005	1.0049	1.0029	1.0005		.9986	.9986	.9986	.9978	.9989	1.0014
7		.9981	1.0001	.9964	1.0004	1.0043	1.0012	1.0005	1.0069	.9991	.9981	.9991	.9976	.9984	1.0012
8		1.0007	.9999	.9968	1.0005	1.0071	.9986	1.0008		.9997	.9986	1.0007	.9978	.9981	1.0020
9		1.0020	.9996	.9966	.9999	.9989	.9972	1.0007	1.0098	.9993	.9983	1.0025	.9974	.9974	1.0021
10		1.0026	.9992	.9959	1.0001	1.0046	.9984	1.0011		.9995	.9989	1.0016	.9979	.9986	1.0026
11		1.0026	.9990	.9956	.9994	1.0028	.9978	1.0003	1.0104	.9989	.9978	1.0000	.9970	.9979	1.0019
12		1.0022	1.0006	.9968	1.0010	1.0030	.9990	1.0008		.9990	.9985	1.0012	.9979	.9983	1.0028
13		1.0018	1.0001	.9954	1.0002	1.0014	.9986	1.0005	1.0092	.9986	.9976	1.0008	.9975	.9976	1.0023
14		1.0028	1.0006	.9968	1.0005	1.0018	1.0001	1.0006		.9990	.9979	1.0012	.9981	.9987	1.0029
15		1.0012	.9998	.9958	.9997	1.0020	1.0001	.9998	1.0091	.9991	.9975	1.0001	.9974	.9979	1.0019
16		1.0024	1.0006	.9960	1.0004	1.0031	1.0013	1.0010		.9992	.9981	1.0003	.9986	.9981	1.0021
17		1.0015	.9996	.9953	.9993	1.0033	1.0015	1.0004	1.0102	.9993	.9972	.9983	.9972	.9977	1.0011
18		1.0002	1.0007	.9961	1.0005	1.0041	1.0002	1.0007		.9991	.9991	1.0013	.9979	.9984	1.0025
19		1.0003	.9994	.9953	.9998	1.0053	.9992	1.0005	1.0105	.9992	.9965	1.0003	.9970	.9973	1.0014
20		1.0019	1.0010	.9963	1.0007	1.0043	1.0003	1.0005		.9993	.9982	1.0003	.9979	.9979	1.0028
21		1.0020	1.0006	.9962	1.0004	1.0033	1.0004	1.0006		.9994	.9983	1.0004	.9982	.9985	1.0027
MEAN		1.0018	.9999	.9960	1.0001	1.0034	1.0002	1.0006	1.0092	.9990	.9981	1.0002	.9977	.9982	1.0019
S.D.		.0012	.0006	.0005	.0004	.0017	.0015	.0003	.0012	.0004	.0007	.0011	.0004	.0005	.0007

27.	MEAN	S.D.
939.1	940.62	2.810
938.3	939.35	1.784
938.8	940.38	2.956
938.4	939.49	1.746
938.6	940.53	3.180
938.8	940.27	2.251
938.5	939.83	2.542
939.1	940.31	2.352
938.1	939.63	3.085
937.6	938.51	2.134
936.6	938.03	3.308
935.9	936.91	1.801
935.8	937.29	2.978
936.1	936.92	1.707
936.5	937.86	2.860
935.6	936.75	1.848
934.8	936.61	3.282
934.9	935.82	1.853
933.9	935.71	3.518
934.4	935.68	2.016
935.6	936.60	1.806

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 .0003

TABLE 4-27

FOURTH INTERCOMPARISON - NOVEMBER 19, 1980
 RUN 27: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	12:33:00	932.5	930.6	927.4	930.6	929.1	929.0	931.2	941.8	930.0	931.0	931.0	928.5	929.6	932.7
2	12:33:30	933.0	929.9	927.4	930.7	929.1	929.0	931.7		930.0	931.0	931.0	928.5	929.9	932.8
3	12:34:00	933.0	929.6	927.0	930.7	929.1	930.0	930.1	943.4	929.0	930.0	930.0	927.8	929.2	932.1
4	12:34:30	933.0	930.5	927.4	930.5	929.1	930.0	931.1		930.0	930.0	930.0	928.3	929.7	932.6
5	12:35:00	931.0	930.5	927.4	930.6	933.2	930.0	931.0	941.3	929.0	929.0	930.0	928.7	930.0	932.8
6	12:35:30	932.0	928.3	925.7	928.0	929.1	929.0	929.7		928.0	928.0	929.0	926.7	928.3	931.1
7	12:36:00	929.0	927.4	924.9	928.0	924.9	927.0	928.6	936.2	928.0	927.0	929.0	925.8	926.9	930.6
8	12:36:30	929.0	928.1	925.7	928.7	928.0	928.0	928.8		928.0	927.0	929.0	926.1	926.8	931.1
9	12:37:00	930.0	928.2	925.3	927.9	933.2	929.0	929.1	938.0	928.0	927.0	929.0	925.9	927.5	930.7
10	12:37:30	930.0	929.0	924.9	927.9	931.2	929.0	929.1		928.0	927.5	928.0	926.1	927.6	931.0
11	12:38:00	930.0	928.2	924.9	928.3	931.2	928.0	928.7	939.1	927.0	926.5	927.0	925.4	926.7	930.6
12	12:38:30	929.5	928.3	924.9	927.9	930.1	930.0	928.6		927.0	926.5	927.0	925.8	927.0	930.8
13	12:39:00	924.0	927.5	924.0	927.7	930.1	927.0	927.5	939.3	926.0	926.0	927.0	924.5	925.6	929.8
14	12:39:30	930.0	928.4	925.7	928.9	932.2	927.0	929.0		928.0	927.0	930.0	926.3	927.5	931.9
15	12:40:00	928.5	928.9	925.7	928.6	931.2	929.0	929.2	934.6	928.0	926.0	929.0	926.4	927.6	932.0
16	12:40:30	927.0	928.0	924.0	928.0	929.1	927.0	928.4		928.0	926.0	929.0	925.7	927.0	931.7
17	12:41:00	928.0	928.6	925.3	929.0	932.2	927.0	929.0	935.9	928.0	926.5	930.0	926.4	927.6	932.2
18	12:41:30	929.0	928.5	924.9	929.0	929.1	926.0	928.9		928.0	926.0	929.0	925.9	927.1	931.8
19	12:42:00	927.0	928.0	924.9	928.2	928.0	927.0	928.4	936.9	928.0	925.0	929.0	925.7	926.9	931.7
20	12:42:30	929.0	927.6	924.9	927.8	928.0	927.0	928.7		928.0	926.0	929.0	925.6	926.9	931.9
21	12:43:00	929.0	928.3	924.9	928.0	930.1	927.0	928.0	940.6	927.0	928.0	929.0	925.7	927.1	932.0
1		1.0016	.9995	.9961	.9995	.9979	.9978	1.0002	1.0116	.9989	1.0000	1.0000	.9973	.9985	1.0018
2		1.0025	.9996	.9969	1.0004	.9987	.9986	1.0015		.9997	1.0007	1.0007	.9981	.9996	1.0027
3		1.0025	.9988	.9960	1.0000	.9983	.9992	.9994	1.0136	.9982	.9992	.9992	.9969	.9984	1.0015
4		1.0031	1.0004	.9970	1.0004	.9989	.9998	1.0010		.9998	.9998	.9998	.9980	.9995	1.0026
5		1.0000	.9995	.9961	.9996	1.0024	.9989	1.0000	1.0111	.9979	.9979	.9989	.9975	.9989	1.0019
6		1.0036	.9996	.9968	.9992	1.0004	1.0003	1.0011		.9992	.9992	1.0003	.9978	.9996	1.0026
7		1.0010	.9993	.9966	.9999	.9966	.9989	1.0006	1.0088	.9999	.9989	1.0010	.9976	.9987	1.0027
8		1.0011	1.0001	.9975	1.0007	1.0000	1.0000	1.0008		1.0000	.9989	1.0011	.9979	.9987	1.0033
9		1.0009	.9990	.9959	.9987	1.0044	.9999	1.0000	1.0095	.9988	.9977	.9999	.9965	.9982	1.0017
10		1.0018	1.0007	.9963	.9995	1.0031	1.0007	1.0008		.9996	.9991	.9996	.9976	.9992	1.0028
11		1.0015	.9996	.9960	.9997	1.0028	.9994	1.0001	1.0113	.9983	.9977	.9983	.9966	.9980	1.0022
12		1.0017	1.0004	.9967	.9999	1.0023	1.0022	1.0007		.9990	.9984	.9990	.9977	.9990	1.0031
13		.9962	1.0000	.9962	1.0002	1.0028	.9995	1.0000	1.0127	.9984	.9984	.9995	.9968	.9980	1.0025
14		1.0015	.9998	.9969	1.0003	1.0039	.9983	1.0004		.9994	.9983	1.0015	.9975	.9988	1.0036
15		.9996	1.0000	.9966	.9997	1.0025	1.0001	1.0003	1.0062	.9990	.9969	1.0001	.9973	.9986	1.0034
16		.9993	1.0004	.9961	1.0004	1.0016	.9993	1.0008		1.0004	.9982	1.0015	.9979	.9993	1.0044
17		.9990	.9996	.9961	1.0001	1.0035	.9979	1.0001	1.0075	.9990	.9974	1.0011	.9973	.9986	1.0035
18		1.0011	1.0006	.9967	1.0011	1.0012	.9979	1.0010		1.0001	.9979	1.0011	.9978	.9991	1.0041
19		.9987	.9998	.9965	1.0000	.9998	.9987	1.0002	1.0094	.9998	.9966	1.0009	.9973	.9986	1.0038
20		1.0014	.9999	.9970	1.0001	1.0003	.9992	1.0011		1.0003	.9981	1.0014	.9977	.9991	1.0045
21		1.0002	.9994	.9958	.9991	1.0014	.9980	.9991	1.0127	.9980	.9991	1.0002	.9966	.9981	1.0034
MEAN		1.0009	.9998	.9965	.9999	1.0011	.9993	1.0004	1.0104	.9992	.9985	1.0002	.9974	.9988	1.0030
S.D.		.0017	.0005	.0005	.0006	.0021	.0011	.0006	.0023	.0008	.0010	.0009	.0005	.0005	.0009

----- 27	MEAN	S.D.
930.4	931.03	3.298
930.3	930.31	1.565
929.5	930.70	3.806
930.0	930.16	1.459
930.4	930.99	3.209
928.9	928.70	1.589
927.7	928.07	2.726
927.9	928.01	1.361
928.2	929.13	3.109
927.7	928.36	1.719
927.3	928.59	3.405
928.0	927.96	1.724
926.4	927.49	3.729
928.3	928.59	1.932
928.6	928.89	2.318
928.1	927.64	1.810
928.4	928.94	2.728
928.1	927.95	1.808
927.9	928.17	2.937
927.7	927.72	1.721
927.7	928.33	3.672

.9993
1.0000
.9987
.9998
.9994
1.0002
.9996
.9999
.9990
.9993
.9986
1.0000
.9988
.9997
.9997
1.0005
.9994
1.0002
.9997
1.0000
.9988

.9996
.0005

TABLE 4-28

FOURTH INTERCOMPARISON - NOVEMBER 19, 1980
 RUN 28: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	13:27:00	914.0	915.9	912.4	916.9	917.2	918.0	916.9	926.1	914.0	915.0	914.0	913.8	915.3	917.1
2	13:27:30	914.0	915.0	911.4	916.9	916.2	917.0	916.3		913.0	914.0	914.0	912.9	914.5	916.6
3	13:28:00	914.0	913.3	910.0	915.4	915.1	917.0	915.6	921.0	912.0	913.5	913.0	912.4	913.9	915.6
4	13:28:30	907.0	911.4	908.4	913.9	914.1	915.0	913.0		910.0	911.0	911.0	910.1	911.9	913.4
5	13:29:00	912.0	913.2	909.7	916.1	915.1	917.0	914.3	918.6	911.0	911.0	912.0	911.3	912.8	914.4
6	13:29:30	914.0	912.4	909.1	913.9	914.1	917.0	913.5		911.0	910.0	911.0	910.9	912.5	913.8
7	13:30:00	913.0	911.1	907.8	913.1	914.1	917.0	912.8	921.0	910.0	911.0	909.0	909.8	911.7	912.7
8	13:30:30	912.0	910.7	907.3	910.8	912.0	916.0	912.2		909.0	910.0	909.0	909.3	911.1	912.0
9	13:31:00	911.0	910.8	908.1	912.4	912.0	916.0	911.2	922.8	908.0	910.0	907.0	908.8	910.8	911.8
10	13:31:30	911.0	910.9	908.2	911.6	913.1	915.0	912.3		909.0	911.0	909.0	909.0	910.8	912.1
11	13:32:00	910.0	911.1	908.2	912.4	913.1	916.0	912.4	922.1	909.0	912.0	909.0	909.7	911.6	912.7
12	13:32:30	911.0	909.7	906.5	910.1	911.5	914.0	910.5		907.0	910.0	906.0	907.8	910.0	910.7
13	13:33:00	910.0	908.9	906.0	911.6	911.0	914.0	910.7	920.2	908.0	910.5	907.0	907.9	909.9	910.8
14	13:33:30	903.0	906.1	903.0	904.8	907.9	912.0	908.2		905.0	905.0	904.0	905.0	906.7	917.9
15	13:34:00	905.0	905.2	902.3	904.8	906.9	908.0	906.5	912.5	904.0	904.5	904.0	903.4	905.2	906.6
16	13:34:30	906.0	905.1	902.3	906.3	906.9	908.0	907.0		904.0	905.0	904.0	903.7	905.4	907.0
17	13:35:00	897.0	904.4	901.9	906.3	906.9	910.0	907.0	907.1	904.0	904.0	904.0	903.7	905.5	906.6
18	13:35:30	895.0	904.7	902.0	905.6	905.9	906.0	906.3		903.0	902.0	905.0	902.9	904.1	906.6
19	13:36:00	904.0	905.7	902.4	906.3	906.4	907.0	906.4	909.6	904.0	903.5	905.0	903.4	905.1	907.4
20	13:36:30	904.0	906.2	902.9	907.8	907.9	909.0	907.5		904.0	905.0	905.0	904.3	906.0	907.6
21	13:37:00	907.0	906.1	902.5	908.6	907.9	911.0	907.4	916.3	904.0		904.0	904.4	906.5	907.6
1		.9977	.9998	.9959	1.0009	1.0012	1.0021	1.0009	1.0109	.9977	.9988	.9977	.9975	.9991	1.0011
2		.9992	1.0003	.9963	1.0024	1.0016	1.0025	1.0017		.9981	.9992	.9992	.9980	.9997	1.0020
3		.9996	.9988	.9952	1.0011	1.0008	1.0029	1.0013	1.0072	.9974	.9990	.9985	.9978	.9995	1.0013
4		.9950	.9998	.9965	1.0026	1.0028	1.0038	1.0016		.9983	.9994	.9994	.9984	1.0004	1.0020
5		.9984	.9997	.9959	1.0029	1.0018	1.0039	1.0009	1.0056	.9973	.9973	.9984	.9977	.9993	1.0011
6		1.0016	.9998	.9962	1.0015	1.0017	1.0049	1.0010		.9983	.9972	.9983	.9982	.9999	1.0014
7		1.0007	.9986	.9950	1.0008	1.0019	1.0051	1.0005	1.0095	.9974	.9985	.9963	.9972	.9993	1.0004
8		1.0012	.9998	.9961	.9999	1.0012	1.0056	1.0014		.9979	.9990	.9979	.9983	1.0002	1.0012
9		.9995	.9993	.9964	1.0011	1.0006	1.0050	.9998	1.0125	.9963	.9984	.9952	.9971	.9993	1.0004
10		1.0000	.9999	.9970	1.0007	1.0023	1.0044	1.0015		.9978	1.0000	.9978	.9978	.9998	1.0012
11		.9978	.9990	.9958	1.0004	1.0012	1.0044	1.0004	1.0110	.9967	1.0000	.9967	.9974	.9995	1.0007
12		1.0016	1.0001	.9966	1.0006	1.0021	1.0049	1.0010		.9972	1.0005	.9961	.9981	1.0005	1.0012
13		.9996	.9984	.9952	1.0013	1.0007	1.0040	1.0003	1.0108	.9974	1.0001	.9963	.9973	.9995	1.0004
14		.9958	.9992	.9958	.9978	1.0012	1.0057	1.0016		.9980	.9980	.9969	.9980	.9999	1.0122
15		.9993	.9996	.9964	.9991	1.0014	1.0027	1.0010	1.0076	.9982	.9988	.9982	.9976	.9996	1.0011
16		1.0006	.9997	.9966	1.0010	1.0016	1.0029	1.0018		.9984	.9995	.9984	.9981	1.0000	1.0018
17		.9913	.9994	.9967	1.0015	1.0022	1.0056	1.0023	1.0024	.9990	.9990	.9990	.9987	1.0007	1.0019
18		.9902	1.0010	.9980	1.0020	1.0023	1.0024	1.0027		.9991	.9980	1.0013	.9990	1.0003	1.0031
19		.9984	1.0003	.9967	1.0010	1.0011	1.0018	1.0011	1.0046	.9984	.9979	.9995	.9978	.9997	1.0022
20		.9979	1.0003	.9966	1.0021	1.0022	1.0034	1.0017		.9979	.9990	.9990	.9982	1.0001	1.0018
21		.9999	.9989	.9950	1.0017	1.0009	1.0043	1.0004	1.0102	.9966		.9966	.9970	.9994	1.0006
MEAN		.9984	.9996	.9962	1.0011	1.0016	1.0039	1.0012	1.0084	.9978	.9989	.9979	.9979	.9998	1.0019
S.D.		.0030	.0006	.0007	.0012	.0006	.0012	.0007	.0032	.0007	.0009	.0014	.0005	.0004	.0025

27	MEAN	S.D.
915.2	916.12	3.185
914.6	914.74	1.691
913.9	914.38	2.513
911.8	911.57	2.243
913.1	913.44	2.478
912.6	912.56	2.049
911.4	912.37	3.268
911.1	910.89	2.057
910.5	911.41	3.826
910.5	910.96	1.835
911.1	912.03	3.418
909.2	909.57	2.153
909.4	910.39	3.356
906.5	906.79	3.966
905.1	905.60	2.398
905.1	905.41	1.570
905.2	904.91	2.929
904.4	903.82	2.970
905.0	905.41	1.852
905.9	905.94	1.822
905.8	907.08	3.440

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.9990
.9998
.9995
1.0003
.9996
1.0000
.9989
1.0002
.9990
.9995
.9990
.9996
.9989
.9997
.9994
.9997
1.0003
1.0006
.9995
1.0000
.9986

.9996
.0005

TABLE 4-29

FOURTH INTERCOMPARISON - NOVEMBER 19, 1980
 RUN 29: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	13:50:00	902.0		894.5	902.7	901.8	902.0	900.2	909.6	897.0	899.0	899.0	897.8	899.1	900.8
2	13:50:30	904.0		892.2	904.2	900.8	903.0	900.2		897.0	899.0	898.0	897.9	898.8	900.7
3	13:51:00	904.0		893.6	905.7	899.7	904.0	898.9	908.6	896.0	898.0	897.0	897.0	898.0	899.5
4	13:51:30	903.0		893.4	901.2	899.7	905.0	898.2		895.0	898.0	895.0	896.6	897.9	898.7
5	13:52:00	901.0		892.2	901.2	897.7	903.0	897.6	906.9	893.0	896.0	893.0	895.0	895.9	896.7
6	13:52:30	898.0		892.2	900.4	897.7	899.0	896.6		893.0	895.0	894.0	894.1	895.0	896.3
7	13:53:00	900.5		892.1	898.9	897.7	897.0	896.2	906.4	893.0	895.0	894.0	894.1	894.9	896.6
8	13:53:30	901.0		892.0	899.7	897.7	898.0	895.7		893.0	894.0	894.0	894.0	894.8	896.3
9	13:54:00	901.0		892.3	903.5	897.7	900.0	896.2	905.1	892.0	895.0	893.0	894.2	894.9	896.2
10	13:54:30	901.0		891.6	899.7	896.7	901.0	895.5		892.0	894.0	892.0	893.6	894.5	895.6
11	13:55:00	901.0		891.6	898.2	897.7	901.0	895.2	905.6	892.0	894.0	892.0	893.9	895.0	895.8
12	13:55:30	900.5		890.4	898.9	897.7	900.0	895.4		891.0	894.0	892.0	893.5	894.4	895.2
13	13:56:00	900.0		890.6	899.7	896.7	896.0	894.7	904.3	891.0	893.0	893.0	892.6	893.2	894.6
14	13:56:30	899.0		890.4	900.4	895.6	895.0	894.6		890.0	891.5	892.0	892.3	892.6	894.2
15	13:57:00	901.0		890.7	899.7	896.7	897.0	895.0	906.1	891.0	893.0	893.0	893.4	894.1	895.3
16	13:57:30	900.0		890.2	898.2	896.7	898.0	894.5		890.0	893.0	891.0	893.1	893.3	894.9
17	13:58:00	899.5		889.5	897.4	895.1	898.0	893.4	904.1	889.0	892.0	890.0	891.5	892.3	893.8
18	13:58:30	898.5		889.0	898.2	893.6	897.0	892.1		889.0	892.0	889.0	890.8	891.5	892.3
19	13:59:00	897.0		888.8	898.2	893.6	895.0	891.6	901.1	888.0	890.0	889.0	890.0	890.8	891.8
20	13:59:30	892.0		888.1	897.4	893.6	894.0	891.8		888.0	890.0	889.0	890.0	890.3	892.0
21	14:00:00	893.0		889.1	895.1	893.6	892.0	892.5	899.6	889.0	889.0	892.0	890.3	890.5	892.9
1		1.0019		.9936	1.0027	1.0017	1.0019	.9999	1.0103	.9963	.9986	.9986	.9972	.9987	1.0006
2		1.0049		.9918	1.0051	1.0014	1.0038	1.0007		.9971	.9994	.9983	.9981	.9991	1.0013
3		1.0047		.9931	1.0065	.9999	1.0047	.9990	1.0098	.9958	.9980	.9969	.9969	.9980	.9997
4		1.0051		.9945	1.0031	1.0015	1.0074	.9998		.9962	.9996	.9962	.9980	.9995	1.0004
5		1.0039		.9941	1.0042	1.0003	1.0062	1.0001	1.0105	.9950	.9984	.9950	.9972	.9982	.9991
6		1.0024		.9959	1.0051	1.0021	1.0035	1.0008		.9968	.9991	.9979	.9981	.9991	1.0005
7		1.0045		.9951	1.0027	1.0013	1.0006	.9997	1.0110	.9961	.9983	.9972	.9973	.9982	1.0001
8		1.0059		.9958	1.0044	1.0022	1.0025	.9999		.9969	.9981	.9981	.9981	.9989	1.0006
9		1.0047		.9950	1.0074	1.0010	1.0035	.9993	1.0092	.9946	.9980	.9957	.9971	.9978	.9993
10		1.0062		.9957	1.0047	1.0014	1.0062	1.0000		.9961	.9984	.9961	.9979	.9989	1.0002
11		1.0053		.9948	1.0022	1.0016	1.0053	.9988	1.0104	.9953	.9975	.9953	.9974	.9986	.9995
12		1.0060		.9947	1.0042	1.0028	1.0054	1.0003		.9953	.9987	.9965	.9981	.9991	1.0000
13		1.0054		.9949	1.0050	1.0017	1.0009	.9994	1.0102	.9953	.9975	.9975	.9971	.9978	.9993
14		1.0057		.9961	1.0073	1.0019	1.0013	1.0008		.9957	.9973	.9979	.9982	.9986	1.0004
15		1.0059		.9944	1.0044	1.0011	1.0014	.9992	1.0116	.9947	.9970	.9970	.9974	.9982	.9995
16		1.0063		.9954	1.0043	1.0026	1.0041	1.0002		.9952	.9985	.9963	.9986	.9988	1.0006
17		1.0060		.9948	1.0036	1.0010	1.0043	.9991	1.0111	.9942	.9976	.9953	.9970	.9979	.9996
18		1.0066		.9959	1.0062	1.0011	1.0049	.9994		.9959	.9993	.9959	.9980	.9987	.9996
19		1.0050		.9958	1.0064	1.0012	1.0028	.9990	1.0096	.9949	.9972	.9960	.9972	.9981	.9992
20		1.0008		.9964	1.0069	1.0026	1.0030	1.0006		.9963	.9986	.9974	.9986	.9989	1.0008
21		1.0010		.9966	1.0033	1.0016	.9999	1.0004	1.0084	.9965	.9965	.9999	.9980	.9982	1.0009
	MEAN	1.0047		.9950	1.0048	1.0015	1.0035	.9998	1.0102	.9957	.9982	.9969	.9977	.9985	1.0001
	S.D.	.0017		.0012	.0016	.0007	.0020	.0006	.0009	.0008	.0008	.0012	.0005	.0005	.0006

----- 27	MEAN	S.D.
898.7	900.30	3.494
898.6	899.57	3.215
897.4	899.81	4.199
897.3	898.38	3.258
895.4	897.47	4.200
894.7	895.85	2.418
894.6	896.50	3.654
894.5	895.75	2.671
894.5	896.83	4.112
893.8	895.46	3.279
894.3	896.24	4.052
894.2	895.17	3.266
893.4	895.20	3.844
892.8	893.88	3.099
894.0	895.71	4.188
893.4	894.33	3.145
892.8	894.17	4.268
891.1	892.62	3.327
890.5	892.53	3.932
890.6	891.29	2.619
891.2	892.13	2.828

.9982
.9989
.9973
.9988
.9977
.9987
.9979
.9986
.9974
.9981
.9978
.9989
.9980
.9988
.9981
.9990
.9985
.9983
.9977
.9992
.9990

.9983
.0006

TABLE 4-30

FOURTH INTERCOMPARISON - NOVEMBER 19, 1980
 RUN 30: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	14:13:00	875.0	877.9	874.9	879.9	879.2	879.0	878.8	889.0	877.0	877.0	878.0	875.9	877.3	879.4
2	14:13:30	876.0	877.4	873.4	874.6	878.2	878.0	877.6		876.0	877.0	877.0	874.3	875.8	877.9
3	14:14:00	876.0	876.0	872.1	873.8	876.6	877.0	876.4	886.4	875.0	875.0	876.0	872.8	874.5	876.3
4	14:14:30	875.0	874.0	871.6	871.6	876.1	876.0	876.2		874.0	874.0	876.0	872.4	873.9	875.8
5	14:15:00	874.0	875.2	871.8	875.3	876.1	876.0	875.3	885.4	874.0	874.0	875.0	872.3	873.9	875.9
6	14:15:30	874.0	874.5	871.5	875.3	876.6	875.0	875.1		873.0	875.0	876.0	872.4	874.1	875.8
7	14:16:00	874.0	873.7	869.8	872.3	875.1	876.0	875.2	886.0	873.0	875.0	875.0	871.4	873.3	874.8
8	14:16:30	872.0	872.5	869.1	876.8	875.1	875.0	873.2		872.0	872.0	873.0	870.3	872.3	873.7
9	14:17:00	868.0	871.4	868.2	871.6	873.0	874.0	871.9	881.3	870.0	871.0	872.0	868.6	870.4	872.0
10	14:17:30	863.0	870.7	867.2	872.3	873.0	872.0	871.8		870.0	871.0	872.0	868.1	869.7	871.9
11	14:18:00	859.0	869.1	867.2	870.8	869.9	870.0	869.5	876.7	868.0	869.0	871.0	866.3	867.8	870.0
12	14:18:30	866.0	869.2	865.6	872.3	869.9	869.0	870.2		868.0	868.0	872.0	865.9	867.5	870.1
13	14:19:00	866.0	867.9	864.5	869.3	869.9	870.0	869.0	876.8	867.0	869.0	870.0	866.3	868.0	869.9
14	14:19:30	863.0	865.5	862.0	867.8	866.8	867.0	866.8		865.0	865.5	876.0	863.6	865.3	867.3
15	14:20:00	866.0	864.8	862.2	865.5	866.8	868.0	865.8	874.0	864.0	865.0	865.0	862.7	864.5	866.0
16	14:20:30	865.0	865.1	861.3	867.0	866.8	869.0	866.1		863.0	865.0	865.0	862.7	864.6	866.1
17	14:21:00	865.0	863.8	860.1	864.0	864.8	867.0	864.7	873.3	862.0	864.0	864.0	861.5	863.4	864.9
18	14:21:30	864.0	862.2	858.4	866.3	863.7	867.0	863.4		861.0	862.5	861.0	860.4	862.2	863.5
19	14:22:00	863.0	862.7	859.4	864.0	863.7	866.0	862.3	871.8	859.0	862.0	860.0	859.3	861.4	862.3
20	14:22:30	858.0	862.8	859.3	866.3	863.7	866.0	863.1		860.0	862.0	861.0	859.8	861.6	862.9
21	14:23:00		863.5	860.2	867.0	865.8	865.0	864.0	864.6	861.0		863.0	860.8	862.2	863.9
1		.9961	.9994	.9960	1.0017	1.0009	1.0007	1.0004	1.0120	.9984	.9984	.9995	.9971	.9987	1.0011
2		.9995	1.0011	.9965	.9979	1.0020	1.0018	1.0013		.9995	1.0006	1.0006	.9976	.9993	1.0017
3		1.0001	1.0001	.9956	.9975	1.0007	1.0012	1.0005	1.0119	.9989	.9989	1.0001	.9964	.9983	1.0004
4		1.0007	.9995	.9966	.9968	1.0019	1.0018	1.0021		.9995	.9995	1.0018	.9977	.9994	1.0016
5		.9985	.9999	.9960	1.0000	1.0009	1.0008	1.0000	1.0115	.9985	.9985	.9997	.9966	.9984	1.0007
6		.9994	1.0000	.9965	1.0009	1.0024	1.0005	1.0006		.9982	1.0005	1.0017	.9976	.9995	1.0014
7		.9993	.9990	.9945	.9974	1.0006	1.0016	1.0007	1.0131	.9982	1.0005	1.0005	.9964	.9985	1.0003
8		.9990	.9996	.9957	1.0045	1.0026	1.0024	1.0004		.9990	.9990	1.0002	.9971	.9994	1.0010
9		.9958	.9997	.9960	.9999	1.0015	1.0027	1.0003	1.0111	.9981	.9993	1.0004	.9965	.9986	1.0004
10		.9916	1.0005	.9965	1.0023	1.0031	1.0020	1.0018		.9997	1.0008	1.0020	.9975	.9993	1.0019
11		.9886	1.0002	.9981	1.0022	1.0012	1.0013	1.0007	1.0090	.9990	1.0001	1.0024	.9970	.9987	1.0013
12		.9969	1.0005	.9964	1.0041	1.0013	1.0003	1.0017		.9992	.9992	1.0038	.9967	.9986	1.0016
13		.9968	.9989	.9950	1.0006	1.0012	1.0014	1.0002	1.0092	.9979	1.0002	1.0014	.9971	.9991	1.0012
14		.9962	.9991	.9951	1.0018	1.0006	1.0008	1.0006		.9985	.9991	1.0112	.9969	.9989	1.0012
15		1.0004	.9990	.9960	.9998	1.0013	1.0027	1.0001	1.0096	.9981	.9992	.9992	.9965	.9986	1.0004
16		.9998	.9999	.9961	1.0021	1.0019	1.0044	1.0011		.9975	.9998	.9998	.9972	.9993	1.0011
17		1.0006	.9993	.9950	.9995	1.0004	1.0030	1.0003	1.0102	.9972	.9995	.9995	.9966	.9988	1.0005
18		1.0015	.9994	.9950	1.0041	1.0011	1.0050	1.0008		.9980	.9997	.9980	.9973	.9994	1.0009
19		1.0005	1.0001	.9963	1.0017	1.0013	1.0040	.9997	1.0107	.9959	.9993	.9970	.9962	.9986	.9997
20		.9953	1.0009	.9968	1.0049	1.0019	1.0046	1.0012		.9976	1.0000	.9988	.9974	.9995	1.0010
21			1.0001	.9963	1.0042	1.0028	1.0019	1.0007	1.0014	.9972		.9996	.9970	.9986	1.0006
	MEAN	.9978	.9998	.9960	1.0011	1.0015	1.0021	1.0007	1.0100	.9983	.9996	1.0008	.9970	.9989	1.0009
	S.D.	.0033	.0006	.0008	.0025	.0008	.0014	.0006	.0031	.0009	.0007	.0028	.0004	.0004	.0006

27 MEAN S.D.
878.1 878.43 3.300
877.0 876.44 1.490
875.4 875.95 3.214
875.1 874.41 1.628
875.2 875.29 3.069
875.2 874.54 1.425
874.0 874.57 3.558
873.1 872.86 1.949
871.4 871.65 3.164
871.1 870.27 2.651
869.1 868.89 3.610
868.6 868.74 2.094
868.7 868.82 2.763
866.2 866.27 3.270
865.0 865.69 2.719
865.1 865.16 1.860
864.2 864.45 2.944
862.5 862.72 2.243
861.7 862.57 3.198
862.1 862.04 2.375
863.0 863.38 1.997

.9996
1.0006
.9994
1.0008
.9999
1.0008
.9993
1.0003
.9997
1.0010
1.0002
.9998
.9999
.9999
.9992
.9999
.9997
.9997
.9990
1.0001
.9996

.9999
.0005

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TABLE 4-31

FOURTH INTERCOMPARISON - NOVEMBER 19, 1980
 RUN 31: RAW DATA AND RELATION OF EACH INSTRUMENT TO THE MEAN

READING	TIME (MST)	-----INSTRUMENT IDENTIFICATION NUMBER-----													
		3	5	7	8	10	11	13	16	17	18	20	24	25	26
1	14:35:00	854.3	856.8	853.3	859.5	858.5	858.0	858.1	865.6	857.0	856.0	858.0	855.1	856.5	858.2
2	14:35:30	853.3	856.3	853.0	856.4	857.5	858.0	857.3		856.0	855.0	857.0	854.8	855.5	857.5
3	14:36:00	855.0	855.5	852.1	857.2	857.5	856.0	856.5	865.3	855.0	855.0	856.0	853.8	854.8	856.6
4	14:36:30	855.0	855.4	852.2	856.4	856.4	857.0	856.2		855.0	855.0	856.0	853.0	853.6	855.8
5	14:37:00	853.0	854.3	851.0	853.4	855.4	857.0	855.1	863.4	853.0	853.0	854.0	852.7	853.6	855.1
6	14:37:30	854.0	852.7	849.6	851.9	854.4	854.0	854.2		853.0	851.5	854.0	851.5	852.2	854.1
7	14:38:00	851.0	852.1	849.1	851.9	853.4	853.0	853.4	864.0	852.0	851.0	853.0	850.8	851.3	853.5
8	14:38:30	853.0	851.9	848.7	849.6	853.4	853.0	852.2		851.0	851.0	852.0	850.3	851.0	852.7
9	14:39:00	852.0	851.2	848.1	850.4	853.4	853.0	852.1	863.2	851.0	851.5	851.0	850.0	850.8	852.3
10	14:39:30	851.0	851.2	848.2	849.6	853.4	853.0	852.2		851.0	850.0	851.0	849.5	850.3	852.0
11	14:40:00	850.0	850.6	847.7	852.7	851.3	852.0	850.8	860.2	850.0	848.0	850.0	849.3	849.6	851.7
12	14:40:30	850.0	850.3	847.2	851.1	852.3	851.0	851.3		850.0	849.0	850.0	848.8	849.3	851.5
13	14:41:00	850.0	849.8	846.7	849.6	851.3	850.0	850.3	857.6	849.0	848.0	850.0	847.6	848.4	850.4
14	14:41:30	848.0	848.9	845.8	851.9	851.3	851.0	850.1		849.0	849.0	850.0	847.8	848.4	850.1
15	14:42:00	847.0	847.6	844.7	848.1	849.2	849.0	848.7	858.0	847.0	847.0	849.0	846.4	846.9	849.1
16	14:42:30	847.0	847.0	844.3	845.9	849.2	849.0	848.0		847.0	846.0	847.0	845.7	846.3	848.1
17	14:43:00	846.0	846.6	843.6	849.6	848.2	848.0	847.3	856.0	846.0	846.0	847.0	845.1	845.7	847.7
18	14:43:30	846.0	846.6	843.7	846.6	848.2	848.0	847.9		846.0	845.5	847.0	845.0	845.6	847.7
19	14:44:00	846.0	846.2	843.2	842.8	847.7	847.0	847.1	855.8	846.0	845.5	846.0	844.7	845.3	847.1
20	14:44:30	846.0	845.1	841.9	846.6	846.1	847.0	845.3		845.0	845.0	845.0	843.4	844.2	845.8
21	14:45:00	846.0	845.0	841.8	845.9	846.1	848.0	845.5	853.8	844.0	845.0	844.0	843.2	844.2	845.7
1		.9960	.9993	.9952	1.0024	1.0013	1.0007	1.0008	1.0096	.9995	.9984	1.0007	.9973	.9989	1.0009
2		.9966	1.0005	.9966	1.0006	1.0019	1.0024	1.0016		1.0001	.9989	1.0013	.9987	.9995	1.0019
3		.9988	.9993	.9954	1.0013	1.0017	.9999	1.0005	1.0108	.9988	.9988	.9999	.9974	.9985	1.0006
4		.9999	1.0004	.9967	1.0016	1.0016	1.0023	1.0013		.9999	.9999	1.0011	.9976	.9983	1.0009
5		.9982	.9998	.9959	.9987	1.0011	1.0029	1.0007	1.0104	.9982	.9982	.9994	.9979	.9989	1.0007
6		1.0014	.9998	.9962	.9989	1.0018	1.0014	1.0016		1.0002	.9984	1.0014	.9984	.9993	1.0015
7		.9979	.9992	.9957	.9990	1.0008	1.0003	1.0008	1.0132	.9991	.9979	1.0003	.9977	.9983	1.0009
8		1.0018	1.0005	.9967	.9978	1.0022	1.0018	1.0008		.9994	.9994	1.0006	.9986	.9994	1.0014
9		.9999	.9990	.9954	.9981	1.0016	1.0011	1.0000	1.0131	.9988	.9993	.9988	.9976	.9985	1.0003
10		1.0001	1.0003	.9968	.9984	1.0029	1.0024	1.0015		1.0001	.9989	1.0001	.9983	.9992	1.0012
11		.9989	.9996	.9962	1.0021	1.0004	1.0012	.9998	1.0109	.9989	.9965	.9989	.9981	.9984	1.0009
12		.9998	1.0002	.9965	1.0011	1.0025	1.0010	1.0014		.9998	.9987	.9998	.9984	.9990	1.0016
13		1.0002	.9999	.9963	.9997	1.0017	1.0002	1.0005	1.0091	.9990	.9978	1.0002	.9974	.9983	1.0007
14		.9984	.9995	.9958	1.0030	1.0023	1.0020	1.0009		.9996	.9996	1.0008	.9982	.9989	1.0009
15		.9984	.9991	.9957	.9997	1.0010	1.0007	1.0004	1.0114	.9984	.9984	1.0007	.9977	.9983	1.0009
16		1.0000	1.0000	.9968	.9987	1.0026	1.0024	1.0012		1.0000	.9989	1.0000	.9985	.9992	1.0013
17		.9985	.9992	.9957	1.0027	1.0011	1.0008	1.0000	1.0103	.9985	.9985	.9997	.9974	.9981	1.0005
18		.9995	1.0002	.9968	1.0002	1.0021	1.0018	1.0017		.9995	.9989	1.0006	.9983	.9990	1.0015
19		.9995	.9997	.9962	.9957	1.0015	1.0007	1.0008	1.0111	.9995	.9989	.9995	.9979	.9987	1.0008
20		1.0011	1.0000	.9962	1.0018	1.0012	1.0023	1.0003		.9999	.9999	.9999	.9980	.9990	1.0008
21		1.0005	.9994	.9956	1.0004	1.0007	1.0029	1.0000	1.0098	.9982	.9994	.9982	.9972	.9984	1.0002
MEAN		.9993	.9998	.9961	1.0001	1.0016	1.0015	1.0008	1.0109	.9993	.9987	1.0001	.9979	.9988	1.0010
S.D.		.0014	.0005	.0005	.0019	.0007	.0009	.0006	.0013	.0007	.0008	.0008	.0005	.0004	.0004

27	MEAN	S.D.
856.5	857.41	2.834
855.5	855.91	1.576
854.7	856.07	2.893
853.8	855.06	1.424
853.5	854.50	2.835
852.5	852.83	1.399
851.9	852.76	3.337
851.1	851.49	1.366
850.9	852.06	3.335
851.0	850.96	1.408
850.4	850.95	2.896
850.1	850.14	1.302
849.0	849.85	2.461
849.3	849.33	1.587
847.8	848.37	2.940
847.1	846.97	1.322
846.4	847.28	2.803
846.5	846.45	1.276
846.2	846.44	2.928
844.8	845.09	1.308
844.9	845.54	2.699

.9989
.9995
.9984
.9985
.9988
.9996
.9990
.9995
.9986
1.0001
.9993
1.0000
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1.0000
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1.0002
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1.0001
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.9992

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.0005

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FOURTH INTERCOMPARISON - NOVEMBER 17-19, 1980
SUMMARY OF EACH INSTRUMENT RELATIVE TO MEAN OF ALL INSTRUMENTS

RUN NO.	-----INSTRUMENT IDENTIFICATION NUMBER-----													
	3	5	7	8	10	11	13	16	17	18	20	24	25	26
1		1.0000	.9930	1.0013	1.0003	1.0019	1.0018	1.0049	.9998	.9990	1.0007	.9979		1.0016
2	.9991	1.0003	.9961	1.0010	1.0027	1.0027	1.0017	1.0111	.9988	.9987	.9988	.9975		1.0002
3	.9997	1.0000	.9963	1.0022	1.0019	1.0015	1.0007	1.0119	.9984	.9981	.9974	.9975		1.0017
4	1.0008	.9998	.9960	1.0019	1.0020	1.0008	1.0016	1.0107	.9989	.9977	.9991	.9975		1.0004
7	1.0028	1.0001	.9966	1.0000	1.0023	1.0013	1.0013	1.0053	.9980	.9996	1.0002	.9975	.9976	1.0008
8	1.0012	1.0007	.9965	1.0025	1.0022	.9997	1.0006	1.0089	.9971	.9992	.9982	.9974	1.0002	1.0005
9	1.0041	1.0002	.9962	1.0013	1.0024	1.0018	1.0007	1.0066	.9975	1.0008	.9987	.9971	.9978	.9995
10	1.0018	.9998	.9959	1.0008	1.0023	1.0007	1.0007	1.0061	.9992	.9993	1.0004	.9973	.9985	1.0009
11	1.0036	1.0000	.9960	1.0008	1.0027	1.0022	1.0004	1.0041	.9985	.9992	.9975	.9976	.9987	1.0016
12	1.0034	.9996	.9961	1.0008	1.0021	1.0004	1.0006	1.0103	.9980	.9985	.9977	.9975	.9995	1.0008
13	1.0006	1.0004	.9957	1.0027	1.0021	1.0023	1.0000	1.0094	.9983	.9984	.9989	.9976	.9988	1.0008
14	1.0006	1.0000	.9966	1.0001	1.0027	.9994	1.0019	1.0040	.9991	.9992	1.0006	.9983	.9992	1.0013
15	1.0003	1.0005	.9971		1.0033	.9982	1.0012	1.0066	.9999	.9979	.9985	.9990	.9996	1.0018
16		1.0003	.9962	.9999	1.0031	1.0048	1.0002	1.0067	.9980	.9993	.9985	.9978	.9989	1.0007
17		.9959	.9958	1.0022	1.0034	1.0034	1.0006	1.0027	.9988	.9977	.9986	.9984	.9993	1.0017
18		.9993	.9962	1.0010	1.0023	1.0043	1.0008	1.0041	.9990	.9975	.9992	.9974	.9998	1.0016
19		.9994	.9957	.9989	1.0021	1.0036	1.0009	1.0022	.9983	1.0007	.9999	.9991	.9980	1.0025
20	1.0023	1.0005	.9964	1.0006	.9992	1.0017	1.0009	1.0092	.9967	.9990	.9993	1.0002	.9990	1.0007
21	1.0018	.9999	.9958	.9995	1.0042	1.0020	1.0005	1.0077	1.0002	.9988	.9988	.9968	.9989	1.0002
22	1.0036	1.0001	.9966	.9998	1.0017	1.0010	1.0004	1.0106	.9983	.9994	.9989	.9973	.9983	1.0001
23	1.0034	1.0003	.9965	1.0000	1.0034	.9978	1.0007	1.0099	.9983	.9992	.9989	.9976	.9993	1.0008
24	1.0006	.9997	.9956	.9997	1.0016	1.0017	1.0001	1.0092	.9992	1.0007	1.0006	.9969	.9989	1.0010
25	1.0040	.9996	.9958	.9993	1.0029	1.0017	1.0004	1.0089	.9982	.9995	.9981	.9978	.9985	1.0005
26	1.0018	.9999	.9960	1.0001	1.0034	1.0002	1.0006	1.0092	.9990	.9981	1.0002	.9977	.9982	1.0019
27	1.0009	.9998	.9965	.9999	1.0011	.9993	1.0004	1.0104	.9992	.9985	1.0002	.9974	.9988	1.0030
28	.9984	.9996	.9962	1.0011	1.0016	1.0039	1.0012	1.0084	.9978	.9989	.9979	.9979	.9998	1.0019
29	1.0047		.9950	1.0048	1.0015	1.0035	.9998	1.0102	.9957	.9982	.9969	.9977	.9985	1.0001
30	.9978	.9995	.9960	1.0011	1.0015	1.0021	1.0007	1.0100	.9983	.9996	1.0008	.9970	.9989	1.0009
31	.9993	.9995	.9961	1.0001	1.0016	1.0015	1.0008	1.0109	.9993	.9987	1.0001	.9979	.9988	1.0010
MEAN	1.0015	1.0000	.9960	1.0008	1.0022	1.0016	1.0008	1.0079	.9985	.9989	.9991	.9977	.9989	1.0010
S.D.	.0019	.0003	.0007	.0012	.0010	.0017	.0005	.0028	.0010	.0009	.0011	.0007	.0006	.0008

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