#513

OSO-8

SPECTROHELIOGRAM ON MAGNETIC TAPE
75-057A-01A

LIMB BRIGHTENING ON MAGNETIC TAPE
75-057A-01B

VELOCITY STUDY ON MAGNETIC TAPE
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SPECTRUM SCAN ON MAGNETIC TAPE
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75-057A-01H
CATALOG OF SORTED FINAL DATA TAPES

75-057A-01I
DATA REDUCTION PROGRAMS ON TAPE

THIS DATA SET CATALOG CONSISTS OF NINE DATA SETS. THESE DATA SETS HAVE BEEN RESTORED. INFORMATION PERTAINING TO EACH INDIVIDUAL DATA SET CAN BE FOUND ON THE FOLLOWING PAGES. DATA SETS 01A-01G ARE ALL IN THE SAME FORMAT. THE FIRST RECORD OF EACH FILE IS A 7-WORD, RADIX 50 TITLE INFORMATION FOR INTERNAL PDP USE (IGNORE). IT'S FOLLOWED BY AN EXPERIMENT HEADER RECORD (SEE APPENDIX IV, B33196-00A OR DATA SET 01I). THAT'S FOLLOWED BY A VARIALBE NUMBER OF LOGICAL HEADER AND DATA RECORDS. THE DATA IS WRITTEN IN PDP TWO'S COMPLEMENT FORMAT WITH 16 BIT WORDS PACKED INTO 24 BITS. SEE "PDP 11 2'S COMPLEMENT FORMAT" FOR MORE DETAILED INFORMATION. DATA SET 75-057A-01H CONTAINS 103 FORMATTED FILES (ONE FOR EACH TAPE IN DATA SETS 01A-01G). DATA SET 75-057A-01I IS AN ANSI STANDARD TAPE USING 7-BIT ASCII CHARACTERS, STANDARD LABELS AND RECORD MARKERS, AND 512-BYTE RECORDS.

75-057A-01A SPECTROHELIOGRAM ON MAGNETIC TAPE

DR#	DS#	ORIGINAL D#	FILES	TIME SPAN
DR00914	DS00914	D-38052	1-244	06/28/75 - 09/26/75
		D-38053	245-542	07/29/75 - 09/06/75
		D-38054	543-889	09/06/75 - 09/26/75
DR00915	DS00915	D-38055	1-432	09/26/75 - 10/16/75
		D-38056	433-848	10/17/75 - 11/15/75
		D-38057	849-1026	11/15/75 - 12/15/75
DR00916	DS00916	D-38058	1-194	12/16/75 - 01/09/76
		D-38059	195-501	01/10/76 - 02/03/76
		D-38060	502-602	02/04/76 - 02/11/76
		D-38061	603-698	02/11/76 - 02/18/76
		D-38062	699-829	02/18/76 - 02/28/76
DR00917	DS00917	D-38063	1-127	03/01/76 - 03/19/76
		D-38064	128-361	03/20/76 - 04/08/76
		D-38065	362-495	04/08/76 - 04/23/76
		D-38066	496-702	04/23/76 - 05/13/76
DR00918	DS00918	D-38067	1-386	05/16/76 - 05/27/76
		D-38068	387-564	05/27/76 - 06/22/76
		D-38069	565-715	06/22/76 - 07/22/76
		D-38070	716-866	07/22/76 - 08/18/76
DR00919	DS00919	D-38071	1-144	08/22/76 - 09/20/76
		D-38072	145-367	09/21/76 - 10/14/76
		D-38073	368-432	10/20/76 - 10/25/76
		D-38074	433-586	10/26/76 - 11/24/76
DR00920	DS00920	D-38075	1-73	11/24/76 - 11/30/76
		D-38076	74-184	12/20/76 - 01/29/77
		D-38077	185-284	01/29/77 - 02/13/77
		D-38078	285-350	02/14/77 - 02/18/77
		D-38079	351-570	04/24/77 - 10/06/77
		D-38080	571-731	10/08/77 - 11/07/77
DR00921	DS00921	D-38081	1-124	11/21/77 - 12/24/77
		D-38082	125-174	01/06/78 - 01/19/78
		D-38083	175-300	01/19/78 - 02/18/78
		D-38084	301-417	02/23/78 - 03/23/78
		D-38085	418-858	03/21/78 - 05/09/78
DR00922	DS00922	D-38086	1-203	05/10/78 - 06/03/78
		D-38087	204-663	06/03/78 - 07/28/78
		D-38088	664-834	07/28/78 - 08/17/78
		D-38089	835-1189	08/17/78 - 09/30/78

OSO-8

Limb Brightening On Magnetic Tape

75-057A-01B

This data set has been restored. There were originally 15 7-track, 800 BPI tapes written in Binary. There are three restored tapes. The DR tapes are 3480 cartridges and the DS tapes are 9-track, 6250 BPI. The tapes were created on a PDP computer. The DR and DS numbers along with the corresponding D numbers and the time spans are as follows:

DR#	DS#	DD#	FILES	TIME SPAN
DR03548	DS03548	D38090	1-145	09/28/75 - 12/31/75
		D38091	146-282	01/02/76 - 03/22/76
		D38092	283-311	03/22/76 - 04/08/76
		D38093	312-384	04/09/76 - 05/21/76
		D38094	385-435	06/02/76 - 06/22/76
DR03549	DS03549	D38095	1-122	06/22/76 - 08/04/76
		D38096 *	123-184	08/15/76 - 10/13/76
		D38097	185-239	11/08/76 - 12/19/76
		D38098 *	240-304	12/21/76 - 02/02/77
		D38099	305-485	11/23/77 - 03/10/78
DR03550	DS03550	D38100	1-5	03/12/78 - 03/13/78
		D38101	6-27	03/14/78 - 04/08/78
		D38102	28-36	06/10/78 - 06/13/78
		D38103	37-40	06/13/78 - 06/15/78
		D38104	41-133	06/15/78 - 09/30/78

* Read errors occurred on D38096 in record 26,28,40, File 123, record 78, File 125, record 15, File 131, and on D38098 in record 364, File 246

NOTE: There is no data for the time span 02/03/77 - 11/22/77

OSO 8

VELOCITY STUDY ON MAG. TAPE

75-057A-01C

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY THERE WERE 16 7-TRACK, 800 BPI TAPES WRITTEN IN BINARY. THERE ARE FOUR RESTORED TAPES. THE DR TAPES ARE 3480 CARTRIDGES AND THE DS TAPES ARE 9-TRACK, 6250 BPI. THE ORIGINAL TAPES WERE CREATED ON A PDP 11/34 COMPUTER AND THE RESTORED TAPES WERE CREATED ON AN IBM 9021 COMPUTER. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND THE TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR004260	DS004260	D038105	1-216	06/25/75 - 09/26/75
		D038106	217-338	10/25/75 - 11/15/75
		D038107	339-448	11/16/75 - 12/15/75
		D038108	449-483	12/16/75 - 01/04/76
DR004261	DS004261	D038109	1-189	01/04/76 - 02/28/76
		D038110	190-300	03/01/76 - 04/06/76
		D038111	301-376	04/09/76 - 05/08/76
		D038112	377-481	05/09/76 - 06/15/76
DR004262	DS004262	D038113	1-139	06/25/76 - 07/28/76
		D038114	140-300	08/04/76 - 09/20/76
		D038115	301-430	09/21/76 - 10/25/76
		D038116	431-552	10/26/76 - 12/22/76
DR004263	DS004263	D038117	1-82	01/23/77 - 02/18/77
		D038118	83-322	12/13/77 - 03/30/78
		D038119	323-649	03/31/78 - 07/25/78
		D038120	650-908	08/05/78 - 09/30/78

OSO 8

SPECTRUM SCAN ON MAG TAPE

75-057A-01D

This data set has been restored. There were originally 18 7-track, 800 BPI tapes written in Binary. There are six restored tapes. The DR tapes are 3480 cartridges and the DS tapes are 9-track, 6250 BPI. The original tapes were created on a PDP11 computer. The DR and DS numbers along with the corresponding D numbers are as follows:

DR#	DS#	D#	FILES	TIME SPAN
DR004194	DS004194	D038121	1 - 570	06/23/75 - 07/18/75
		D038122	571 - 1186	07/19/75 - 08/05/75
		D038123	1187 - 1609	08/13/75 - 09/16/75
DR004195	DS004195	D038124	1 - 481	09/17/75 - 09/25/75
		D038125	482 - 957	10/17/75 - 11/25/75
		D038126	958 - 1447	11/26/75 - 02/26/76
DR004196	DS004196	D038127	1 - 212	03/01/76 - 04/08/76
		D038128	213 - 552	04/09/76 - 06/27/76
		D038129	553 - 1111	06/28/76 - 08/31/76
DR004197	DS004197	D038130	1 - 449	09/01/76 - 10/25/76
		D038131	450 - 825	11/04/76 - 11/29/76
		D038132	826 - 1118	11/29/76 - 01/27/77
DR004198	DS004198	D038133	1 - 36	02/02/77 - 02/18/77
		D038134	37 - 323	08/30/77 - 02/17/78
		D038135	324 - 806	02/20/78 - 04/09/78
DR004199	DS004199	D038136	1 - 546	04/09/78 - 06/08/78
		D038137	547 - 1061	06/08/78 - 07/27/78
		D038138	1062 - 1534	07/28/78 - 09/30/78

OSO 8

SPECTRUM RANGE SCAN ON MAG. TAPE

75-057A-01E

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY IT CONTAINED SEVEN 7-TRACK, 800 BPI TAPES WRITTEN IN BINARY. THERE ARE TWO RESTORED TAPES. THE DR TAPES ARE 3480 CARTRIDGES AND THE DS TAPES ARE 9-TRACK, 6250 BPI. THE ORIGINAL TAPES WERE CREATED ON A PDP 11 COMPUTER AND WERE RESTORED ON AN IBM 9021 COMPUTER. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND THE TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR004318	DS004318	D038139	1-17	06/23/75 - 06/25/75
		D038140	18-453	11/17/75 - 03/22/76
		D038141	454-830	05/13/76 - 09/20/76
		D038142	831-927	09/21/76 - 10/25/76
		D038143	928-1226	10/27/76 - 01/05/77
		D038144	1227-1277	01/12/77 - 02/06/77
DR004319	DS004319	D038145	1-240	09/13/77 - 06/24/78

OSO 8

SINGLE WAVELENGTH MONITORING DATA

75-057A-01F

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY IT CONTAINED FIVE 7-TRACK, 800 BPI TAPES WRITTEN IN BINARY. THERE IS ONE RESTORED TAPE. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. THE ORIGINAL TAPES WERE CREATED ON A PDP 11 COMPUTER AND THEY WERE RESTORED ON THE SHAFFSTALL SYSTEM. THE DR AND DS NUMBERS ALONG WITH THE CORESPONDING D NUMBERS AND THE TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR004305	DS004305	D038146	1-500	06/23/75 - 04/08/76
		D038147	501-904	04/09/76 - 10/23/76
		D038148	905-1029	10/26/76 - 02/17/77
		D038149	1030-1321	04/24/77 - 05/09/78
		D038150	1322-1482	05/11/78 - 09/18/78

OSO 8

MISCELLANEOUS DATA ON MAG. TAPE

75-057A-01G

This data set has been restored. There were originally 4 7-track, 800 BPI tapes written in Binary. There is one restored tape. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tapes were created on a PDP11 computer and the restored tapes were created on an IBM 9021 computer. The DR and DS numbers along with the corresponding D numbers are as follows:

DR#	DS#	D#	FILES	TIME SPAN
DR004252	DS004252	D038151	1 - 201	06/28/75 - 04/08/76
		D038152	202 - 494	04/09/76 - 09/11/76
		D038153	495 - 603	10/31/76 - 02/18/77
		D038154	604 - 606	04/28/78 - 07/22/78

OSO 8

CAT. OF SORTED FINAL DATA TAPES

75-057A-01H

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY IT CONTAINED ONE 7-TRACK, 800 BPI TAPE WRITTEN IN BINARY. THERE IS ONE RESTORED TAPE. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. THE ORIGINAL TAPE WAS CREATED ON A PDP11 COMPUTER AND WAS RESTORED ON AN IBM 9021 COMPUTER. THE DR AND DS NUMBER ALONG WITH THE CORRESPONDING D NUMBER IS AS FOLLOWS:

DR#	DS#	D#	FILES
DR004320	DS004320	D038155	103

OSO 8

DATA REDUCTION PROGRAMS ON TAPE

75-057A-01I

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY IT CONTAINED ONE 7-TRACK, 800 BPI TAPE WRITTEN IN ASCII. THERE IS ONE RESTORED TAPE. FOR PERTINANT INFORMATION FOR THIS DATA SET REFER TO THE FIRST PAGE OF THE COVER SHEETS. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. THE ORIGINAL TAPE WAS CREATED ON A PDP 11 COMPUTER AND WAS RESTORED ON AN IBM 9021 COMPUTER. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND FILES ARE AS FOLLOWS:

DR#	DS#	D#	FILES
DR004372	DS004372	D038156	1-67

REQ. AGENT
GLS

RD#
V0103

ACQ. AGENT
HHM

OSO-8

75-057A-01A (restored)
SPECTROHELIOGRAM ON MAGNETIC TAPE

75-057A-01B (restored)
LIMB BRIGHTENING ON MAGNETIC TAPE

75-057A-01C (restored)
VELOCITY STUDY ON MAGNETIC TAPE

75-057A-01D (restored)
SPECTRUM SCAN ON MAGNETIC TAPE

75-057A-01E (restored)
SPECTRUM RANGE SCAN ON MAGNETIC TAPE

75-057A-01F (restored)
SINGLE WAVELENGTH MONITORING DATA ON MAGNETIC TAPE

75-057A-01G (restored)
MISCELLANEOUS DATA ON MAGNETIC TAPE

75-057A-01H (restored)
CATALOG OF SORTED FINAL DATA TAPES

75-057A-01I
DATA REDUCTION PROGRAMS ON TAPE

This data set catalog consists of 9 data sets. Data sets 01A - 01G are all in the same format. The first record of each file is a 7- word, Radix 50 title information for internal PDP use (ignore). Its followed by an experiment header record (see appendix IV, B33196-00A or data set 01I). Thats followed by a variable number of logical header and data records. The data is written in PDP two's complement format with 16 bit words packed into 24 bits. See " PDP 11 2's COMPLEMENT FORMAT" for more detailed information. Data set 75-057A-01H contains 103 formatted files (one for each tape in data sets -01A - -01G). Data set 75-057A-01I is an ANSI standard tape using 7-bit ASCII characters, standard labels and record markers, and 512-byte records. Each data set is multi-filed, 7 track, 800 BPI, binary magnetic tapes. They were created on the PDP 11/34 computer. The following pages list the data sets D and C numbers, files and time spans.

AND D113

75-057A-01A SPECTROHELIOGRAM ON MAGNETIC TAPE (Tapes have been restored) See previous pages.

D#	C#	FILES	TIME SPAN
D-38052	C-21878	244	06/28/75 - 07/28/75
D-38053	C-21879	298	07/29/75 - 09/06/75
D-38054	C-21880	347	09/06/75 - 09/26/75
D-38055	C-21881	432	09/26/75 - 10/16/75
D-38056	C-21882	416	10/17/75 - 11/15/75
D-38057	C-21883	178	11/15/75 - 12/15/75
D-38058	C-21884	194	12/16/75 - 01/09/76
D-38059	C-21885	307	01/10/76 - 02/03/76
D-38060	C-21886	101	02/04/76 - 02/11/76
D-38061	C-21887	96	02/11/76 - 02/18/76
D-38062	C-21888	131	02/18/76 - 02/28/76
D-38063	C-21889	127	03/01/76 - 03/19/76
D-38064	C-21890	234	03/20/76 - 04/08/76
D-38065	C-21891	134	04/08/76 - 04/23/76
D-38066	C-21892	207	04/23/76 - 05/13/76
D-38067	C-21893	386	05/16/76 - 05/27/76
D-38068	C-21894	178	05/27/76 - 06/22/76
D-38069	C-21895	151	06/22/76 - 07/22/76
D-38070	C-21896	151	07/22/76 - 08/18/76
D-38071	C-21897	144	08/22/76 - 09/20/76
D-38072	C-21898	223	09/21/76 - 10/14/76
D-38073	C-21899	65	10/20/76 - 10/25/76
D-38074	C-21900	154	10/26/76 - 11/24/76
D-38075		73	11/24/76 - 01/30/76
D-38076	C-21901	111	12/20/76 - 01/29/77
D-38077	C-21902	100	01/29/77 - 02/13/77
D-38078	C-21903	66	02/14/77 - 02/18/77
D-38079	C-21904	220	04/24/77 - 10/06/77
D-38080	C-12905	161	10/08/77 - 11/07/77
D-38081	C-21906	124	11/21/77 - 12/24/77
D-38082	C-21907	50	01/06/78 - 01/19/78
D-38083	C-21908	126	01/19/78 - 02/18/78
D-38084	C-21909	117	02/23/78 - 03/23/78
D-38085	C-21910	441	03/21/78 - 05/09/78
D-38086	C-21911	203	05/10/78 - 06/03/78
D-38087	C-21912	460	06/03/78 - 07/28/78
D-38088	C-21913	171	07/28/78 - 08/17/78
D-38089	C-21914	355	08/17/78 - 09/30/78

75-057A-01B LIMB BRIGHTENING ON MAGNETIC TAP E

D#	C#	FILES	TIME SPAN
D-38090	C-21824	145	09/28/75 - 12/31/75
D-38091	C-21825	137	01/02/76 - 03/22/76
D-38092	C-21826	29	03/22/76 - 04/08/76
D-38093	C-21827	73	04/09/76 - 05/21/76
D-38094	C-21828	51	06/02/76 - 06/22/76
D-38095	C-21829	122	06/22/76 - 08/04/76
D-38096	C-21830	62	08/15/76 - 10/13/76
D-38097	C-21831	55	11/08/76 - 12/19/76
D-38098	C-21832	65	12/21/76 - 02/02/77
D-38099	C-21833	181	11/23/77 - 03/10/78
D-38100	C-21834	5	03/12/78 - 03/13/78

75-057A-01B LIMB BRIGHTENING ON MAGNETIC TAPE CON'T

D#	C#	FILES	TIME SPAN
D-38101	C-21835	22	03/14/78 - 04/08/78
D-38102	C-21836	9	06/10/78 - 06/13/78
D-38103	C-21837	4	06/13/78 - 06/15/78
D-38104	C-21838	93	06/15/78 - 09/30/78

75-057A-01C VELOCITY STUDY ON MAGNETIC TAPE

D#	C#	FILES	TIME SPAN
D-38105	C-21915	216	06/25/75 - 09/26/75
D-38106	C-29429	122	10/25/75 - 11/15/75
D-38107	C-21916	110	11/16/75 - 12/15/75
D-38108	C-21917	35	12/16/75 - 01/04/76
D-38109	C-29428	189	01/04/76 - 02/28/76
D-38110	C-21918	111	03/01/76 - 04/06/76
D-38111	C-21919	76	04/09/76 - 05/08/76
D-38112	C-21920	105	05/09/76 - 06/15/76
D-38113	C-21921	139	06/25/76 - 07/28/76
D-38114	C-21922	161	08/04/76 - 09/20/76
D-38115	C-21923	130	09/21/76 - 10/25/76
D-38116	C-21924	122	10/26/76 - 12/22/76
D-38117	C-21925	82	01/23/77 - 02/18/77
D-38118	C-21926	240	12/13/77 - 03/30/78
D-38119	C-29430	327	03/31/78 - 07/25/78
D-38120	C-21927	259	08/05/78 - 09/30/78

75-057A-01D SPECTRUM SCAN ON MAGNETIC TAPE

D#	C#	FILES	TIME SPAN
D-38121	C-21850	570	06/23/75 - 07/18/75
D-38122	C-21851	616	07/19/75 - 08/05/75
D-38123	C-21852	423	08/13/75 - 09/16/75
D-38124	C-21853	481	09/17/75 - 09/25/75
D-38125	C-21854	476	10/17/75 - 11/25/75
D-38126	C-21855	490	11/26/75 - 02/26/76
D-38127	C-21856	212	03/01/76 - 04/08/76
D-38128	C-21857	340	04/09/76 - 06/27/76
D-38129	C-21858	559	06/28/76 - 08/31/76
D-38130	C-21859	449	09/01/76 - 10/25/76
D-38131	C-21860	376	11/04/76 - 11/29/76
D-38132	C-21861	293	11/29/76 - 01/27/77
D-38133	C-29427	36	02/02/77 - 02/18/77
D-38134	C-21862	287	08/30/77 - 02/17/78
D-38135	C-21863	483	02/20/78 - 04/09/78
D-38136	C-21864	546	04/09/78 - 06/08/78
D-38137	C-21865	515	06/08/78 - 07/27/78
D-38138	C-21866	473	07/28/78 - 09/30/78

75-057A-01E SPECTRUM RANGE SCAN ON MAGNETIC TAPE

D#	C#	FILES	TIME SPAN
D-38139	C-21775	17	06/23/75 - 06/25/75
D-38140	C-21776	436	11/17/75 - 03/22/76

75-057A-01E SPECTRUM RANGE SCAN ON MAGNETIC TAPE CON'T

D#	C#	FILES	TIME SPAN
D-38141	C-21777	377	05/13/76 - 09/20/76
D-38142	C-21778	97	09/21/76 - 10/25/76
D-38143	C-21779	299	10/27/76 - 01/05/77
D-38144	C-21780	51	01/12/77 - 02/06/77
D-38145	C-21781	240	09/13/77 - 06/24/78

75-057A-01F SINGLE WAVELENGTH MONITORING DATA ON MAGNETIC TAPE

D#	C#	FILES	TIME SPAN
D-38146	C-21867	500	06/23/75 - 04/08/76
D-38147	C-21868	404	04/09/76 - 10/23/76
D-38148	C-21869	125	10/26/76 - 02/17/77
D-38149	C-21870	292	04/24/77 - 05/09/78
D-38150	C-21871	161	05/11/78 - 09/18/78

75-057A-01G MISCELLEOUS DATA ON MAGNETIC TAPE

D#	C#	FILES	TIME SPAN
D-38151	C-21873	201	06/28/75 - 04/08/76
D-38152	C-21874	293	04/09/76 - 09/11/76
D-38153	C-21875	109	10/31/76 - 02/18/77
D-38154	C-21876	3	04/28/78 - 07/22/78

75-057A-01H CATALOG OF SORTED FINAL DATA TAPES

D#	C#	FILES	TIME SPAN
D-38155	C-21782	103	----------

75-057A-01I DATA REDUCTION PROGRAMS ON TAPE

D#	C#	FILES	TIME SPAN
D-38156	C-21783	67	--- -------

OSO-8 SPECTROMETER

INTEGER & CHARACTER REPRESENTATION

PDP-11 ~~2's COMPLEMENT FORMAT~~

Each PDP 16-bit word is packed into a ~~complement~~ 24-bit word:

16-BIT WORD 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

24-BIT WORD xx 13 14 15 16 xx 9 10 11 12 xx 5 6 7 8 xx 1 2 3 4

The 4 bytes in each word are inverted and 2 bits (xx) added to the beginning of each byte.

Example: Word 7 of the experiment header record contains orbit#=

17010000_8 =

001111 | 000001 | 000000 | 000000_2 =

(~~2's complement~~) 000000 | 000000 | 000001 | 001111_2 =

$0\ 0\ 1\ F_{16} = 31_{10}$

Ignore the first 2 bits of each byte to leave four, 4-bit hex bytes.

ASCII CHARACTERS

The data reduction programs tape (data set-01I) is written in PDP ~~ASCII 2's complement~~ format.

Example: OCTAL	0305	0505	0204	0205	1704	0505	0405	1104	1604	0504 =
ASCII	53	55	42	52	4F	55	54	49	4E	45 =
	S	U	B	R	O	U	T	I	N	E

FOR FUTHER DOCUMENTATION SEE B DOCUMENT

#B26857-000A
#B29709-000A
#B29816-000A
#B30658-000A
#B30656-000A
#B32430-000A
#B33136-000A

Appendix I

Instrument Papers

Bruner, E. C. Jr., "The University of Colorado OSO-8 Spectrometer Experiment. I: Introduction and Optical Design Considerations," Space Science Instrumentation, 3, 369, 1977.

Hansen, E. R. and E. C. Bruner, Jr., "The University of Colorado OSO-8 Spectrometer Experiment. IV: Mission Operations," Space Science Instrumentation, 5, 3, 1979.

"Design and Operation of the University of Colorado Experiment Aboard OSO-8," LASP Publication.

A.2 FLOATING-POINT FORMATS

The exponent for both 2-word and 4-word floating-point formats is stored in excess 128 (200(octal)) notation. Binary exponents from -128 to +127 are represented by the binary equivalents of 0 through 255 (0 through 377(octal)). Fractions are represented in sign-magnitude notation with the binary radix point to the left. Numbers are assumed to be normalized and, therefore, the most significant bit is not stored, because of redundancy (this is called "hidden bit normalization"). This bit is assumed to be a 1 unless the exponent is 0 (corresponding to 2-128) in which case it is assumed to be 0. The value 0 is represented by two or four words of zeros. For example, +1.0 would be represented by:

```
40200
0
```

in the 2-word format, or:

```
40200
0
0
0
```

in the 4-word format. The decimal number -5 is:

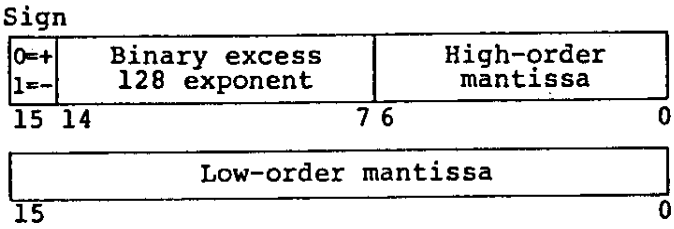
```
140640
0
```

in the 2-word format, or:

```
140640
0
0
0
```

in the 4-word format.

A.2.1 Real Format (2-Word Floating Point)



Since the high-order bit of the mantissa is always 1, it is discarded, giving an effective precision of 24 bits, or approximately 7 digits of accuracy. The magnitude range lies between approximately .29 X 10^{-38} and .17 X 10^{39}.

OSO-8

University of Colorado
Laboratory for Atmospheric and Space Physics

FINAL DATA TAPE PHYSICAL CHARACTERISTICS

The tapes supplied the National Space Science Data Center as the Final Data for the University of Colorado experiment have the following physical tape characteristics.

The 9-track, 6250 ~~7-track, 800~~ BPI tapes were written with a PDP 11/34. The word length is 16 bits and the records are 512 bytes. Most data are integer; however some are floating point. The attached information indicates the PDP floating point format. The PDP writes a 7-track tape as shown below:

PDP Word	0 1 2 3	4 5 6 7	8 9 10 11	12 13 14 15
PDP Tape Word Part	4	3	2	1

		Word Part
9-track	x x 12 13 14 15	1
The ~~7-track~~	x x 8 9 10 11	2
tape	x x 4 5 6 7	3
↓	x x 0 1 2 3	4

The PDP uses two's complement representation.

The Final Data tapes and the data catalog are written in the PDP "DOS image/core dump" mode which produces a tape where the files have a 7 (16-bit) word header followed by binary records of length 512 bytes. The header contains Radix-50 title information for internal PDP use. Files are separated by standard End of File markers. See the Final Report (Appendix IV) SOL manual, Section 8, for the contents of the data files and page 41 of the Final Report for the contents of the catalog files.

The program tape (OSO.PRG) is an ANSI standard tape using 7-bit ASCII characters, standard labels and record markers, and 512-byte records.

See Section V, the Tape Archive, of the Final Report for a discussion of the experiment types and sorting and cataloging methods.

March, 1980

LABORATORY FOR ATMOSPHERIC AND SPACE PHYSICS
OSO-8 PROCESSED DATA FOR THE
NATIONAL SPACE SCIENCE DATA CENTER

Box Number	Tapes
1	SS1 → SS10
2	SS11 → SS18, S1 → S2
3	S3 → S11
4	S12 → S21
5	S22 → S31
6	S32 → 37, X1 → X4
7	LB1 → LB10
8	LB11 → LB15, M1 → M5
9	V1 → V10
10	V11 → V16, R1 → R4
11	R5 → R7, FDCAT, OSO.PRG

UNIVERSITY OF COLORADO AT BOULDER

BOULDER, COLORADO 80309

LABORATORY FOR ATMOSPHERIC AND SPACE PHYSICS (LASP)
Telephone 303-492-6982 8336
TWX 910-940-3441
Campus Box 392

March 25, 1980

Mr. Ralph Post
National Space Science Data Center
Code 601
Goddard Space Flight Center
Greenbelt, MD 20771

Dear Mr. Post:

Enclosed please find the Orbiting Solar Observatory 8 Final Report from the University of Colorado high-resolution ultraviolet spectrometer experiment. This package contains all Appendices of that report pertaining to the data tapes shipped under separate cover. Also, please find attached an explanation of the physical characteristics of the data tapes.

Sincerely,

Sabine Schaffner

SS:eh
encs

UNIVERSITY OF COLORADO AT BOULDER

BOULDER, COLORADO 80309

LABORATORY FOR ATMOSPHERIC AND SPACE PHYSICS (LASP)
Telephone 303-492-7677
TWX 910-940-3441
Campus Box 392

March 21, 1980

Mr. Ralph Post
National Space Science Data Center
Code 601
Goddard Space Flight Center
Greenbelt, MD 20771

Dear Mr. Post,

I have today sent off 11 (eleven) boxes of OSO-8 final data tapes of the University of Colorado high-resolution spectrometer experiment. The attached list gives you the contents of each box. Under separate cover, we are sending you a copy of the Final Report which contains instructions on the use of programs to read these tapes.

Sincerely,

Sabine Schaffner

Sabine Schaffner

SS:nmb

Karen Simmons

320-3398
-5203

SCIENCE FILE FORMAT

LOGICAL RECORD TYPES

	EXPERIMENT TYPE	ARRAY DIMENSIONS
1.	Spectroheliogram	
	R128F,R128s	128 x 128
	R64F,R64s	64 x 64
	R16F,R16s	16 x 16
	R8F,R8s	8 x 8
2.	Emission Max (or Min)	
	R64F,R64s	64 x 64
	R16F,R16s	16 x 16
	R8F,R8s	8 x 8
3.	32 Line Small Spectroheliogram	32 x 32
4.	Single Wavelength Monitoring	<1024 x 1
5.	Line Scan	<128 x $\leq$8
6.	Spectrum Scan	<1024
7.	Multiple Line Scan	<1024 x $\leq$8
8.	Velocity Study (No Calib.)	<64 x <64
9.	Velocity Study (Calib.)	<64 x <65
10.	Flare Watch	
	R128F,R128s	128 x 128
	R64F,R64s	64 x 64
	R16F,R16s	16 x 16
	R8F,R8s	8 x 8
11.	Calibration with Solar Line	N x 4
12.	Slit Scan	<64 x $\leq$16
13.	Detailed Slit Scan	<1024 x 1
14.	Multiple Line Profile Slit Scan	<1024 x $\leq$8
15.	Slit Scan Emission Max or Min	$\leq$16 x 1

	EXPERIMENT TYPE	ARRAY DIMENSIONS
16.	Limb Brightening	<64 x <64
17.	Limb Brightening (Detailed)	<1024 x 1
18.	Limb Brightening (Mult. Line)	<1024 x ≤8
19.	Line Raster	<512 x N (Nbr. wavelength)
20.	Wavelength Maximum	<1024 x 1
21.	Flare Location (R64F)	64 x 64
22.	Spectrum Range Scan	<1024 x 1

OSO-I Quick ... ormat for University of Colorado and Centre National de la Research Scientifique

Byte	Representation	Observatory Data Desc.
1 - 12	Header information See Attachment 1	
13 - 14	Orbit number	
15 - 16	Right ascension of the spin axis x 10^2 (Deg)	
17 - 18	Declination of the spin axis x 10^2 (Deg)	
19 - 20	Roll Angle x 10^2 (Deg)	
21 - 22	Pitch Angle x 10^2 (Deg)	
23 - 24	Day of year (1-366)	
25 - 28	Milliseconds of day	
29+ 38N	D(17,j)	CNRS (Paris) Lyman Alpha Grating Position
30+ 38N	D(18,j)	
31+ 38N	D(21,j)	CNRS (Paris) MG II H
32+ 38N	D(22,j)	
33+ 38N	D(53,j)	CNRS (Paris) MG II K
34+ 38N	D(54,j)	
35+ 38N	D(81,j)	CNRS (Paris) CA II H
36+ 38N	D(82,j)	
37+ 38N	D(85,j)	CNRS (Paris) CA II K
38+ 38N	D(86,j)	
39+ 38N	D(117,j)	CNRS (Paris) Lyman Beta Mech. Position

Byte	Representation	Observatory Data Desc.	
40+ 38N	D(118,j)		
41+ 38N	D(19,j)	Colorado	Spectrometer
42+ 38N	D(20,j)		
43+ 38N	D(51,j)	Colorado	Spectrometer
44+ 38N	D(52,j)		
45+ 38N	D(83,j)	Colorado	Spectrometer
46+ 38N	D(84,j)		
47+ 38N	D(111,j)	Colorado	Status
48+ 38N	D(113,j)	Colorado	DMA Address
49+ 38N	D(114,j)	Colorado	DMA Data
50+ 38N	D(115,j)	Colorado	Spectrometer
51+ 38N	D(116,j)		
52+ 38N	D(29,j)	Spacecraft	Sail Control Electronics Data
53+ 38N	D(30,j)		
54+ 38N	D(31,j)	Spacecraft	CMD Memory Readout
55+ 38N	D(32,j)	Spacecraft	Spacecraft Clock
56+ 38N	D(33,j)		
57+ 38N	D(66,j)	Spacecraft	Shaft Encoder Readout
58+ 38N	D(67,j)	Spacecraft	Shaft Encoder Readout
59+ 38N	D(62,j)	Spacecraft	Sail Control Electronics Data
60+ 38N	D(63,j)		
61+ 38N	D(96,j)	Spacecraft	Subcom 1
62+ 38N	D(97,j)	Spacecraft	Subcom 2
63+ 38N	D(99,j)	Spacecraft	Subcom 4
64+ 38N	D(101,j)	Spacecraft	Sail Control Electronics Data
65+ 38N	D(102,j)		
66+ 38N	D(F,j)	GSFC	Frame Quality (See Attachment V)
143 - 146		Zero Fill	

EXPERIMENT HEADER FORMAT

WORD NUMBER	CONTENTS
1	Tape ID: Colorado = 1; Paris = 2, Raw data = 3
2	Control of SEAS: Colorado = 1; Paris = 0
3	Tape type: Real time = 1; Playback = 2, Science (1st generation) = 3, Science (2nd generation) = 4, User = 5
4	Number of minor frames in transmission to Goddard in error
5	Number of NASCOM blocks from Goddard with bad checksum
6	Good or questionable engineering data
7	Orbit number
8-9	S/C Clock -- 2 word integer
10	Time at start of experiment -- day
11	Time at start of experiment -- hour
12	Time at start of experiment -- minute
13	Time at start of experiment -- second
14	Time at end of experiment -- day
15	Time at end of experiment -- hour
16	Time at end of experiment -- minute
17	Time at end of experiment -- second
18	S/C Mode
19	Status of operation: Normal = 0, Redundant = 1, Recovery = 2
20	Number of logical records in experiment
21	Logical record size (in 16 bit words)
22	Source code -- ground station ID

EXPERIMENT HEADER FORMAT

WORD NUMBER	CONTENTS
23	Right ascension of spin axis x 10^2 (deg)
24	Declination of spin axis x 10^2 (deg)
25	Roll angle x 10^2 (deg)
26	Pitch angle x 10^2 (deg)
27	Commanded azimuth x 10 (arc min)
28	Commanded elevation x 10 (arc min)
29	Actual azimuth x 10 (arc min)
30	Actual elevation x 10 (arc min)
31	Component of velocity on sun line - start of experiment
32	Component of velocity on sun line - end of experiment
33	$\rho \times 10^3$ (sin θ)
34	$\tau \times 10^2$ (deg)
35-44	Coefficients used to correct wavelength 5 floating point numbers
45-59	Blank
	The following parameters pertain to the experiment itself:
60	Experiment type
61	Experiment serial number
62	Experiment category (type of solar region)
63	Detector: T = 2, G = 3
64	Filter
65	Starting slit position

EXPERIMENT HEADER FORMAT

WORD NUMBER	CONTENTS
66	Slit length (arc sec)
67-68	Starting wavelength drive step number 2 word integer
69-70	Ending wavelength drive stp number 2 word integer
71	Starting wavelength x 10 (angstroms)
72	Ending wavelength x 10 (angstroms)
73-74	Gate time (sec) -- 2 word floating point
75-76	Time interval between observations (sec) 2 word floating point
77	Gate time, clock and sync
78	Number of observations on a line or spectrum
79	Number of wavelength drive steps between observations
80-81	Number of angstroms between observations 2 word floating point
82	Number of repeats over scan range
83	Number of disc positions
84	Number of slit positions
85	Number of steps between slit positions
86	Threshold
87	Calculated centriod of calibration line
88	Wavelength correction for calibration experiment
89	Number of repeats of experiment before calibration
90	Slit position of max or min
91	Max or min flag: max = 1, min = 0

EXPERIMENT HEADER FORMAT

WORD NUMBER	CONTENTS
92-93	Wavelength drive position of max or min (step number)
94	Wavelength drive position of max x 10 (angstroms)
95	Complete experiment = 0, incomplete = 1
96	React experiment = 1, normal = 0
97	Experiment sequence number
98	Dimension 1 of data array
99	Dimension 2 of data array
100	Spectral order: 1, 2, or 3
101	First logical record on file
102	Last logical record on file
103	Wavelength drive stuck on null -- number of times during experiment set-up
104	Wavelength drive stuck off null -- number of times during experiment set-up
105-118	Starting and ending wavelengths of additional lines (in multiple line experiments) x 10 (angstroms)
119-132	Gate times of additional lines -- 2 word floating point
133-149	Blank
150-256	User area

LOGICAL RECORD HEADER FORMAT

WORD NUMBER	CONTENTS
1	144444 Logical record ID
2	144444
3	Dimension 1 of data array
4	Dimension 2 of data array
5	Variable type *
6-12	Used by software
13	Repetition number (logical record number)
14	Azimuth x 10 (arc min)
15	Elevation x 10 (arc min)
16	New slit position
17	Starting wavelength x 10 (angstroms)
18	Ending wavelength x 10 (angstroms)
19-20	Number angstroms between observations 2 word floating point
21	Time at start of logical record -- day
22	Time at start of logical record -- hour
23	Time at start of logical record -- minute
24	Time at start of logical record -- second
25	High voltage of detector being used
26	Overflow indicator (≥1 = overflow, 0 = no overflow)
27	Junior error -- count and location
28	Ramp calculation error = 1, no error = 0

LOGICAL RECORD HEADER FORMAT

WORD NUMBER	CONTENTS
29	No GTO clock signals, error = 1, no error = 0
30	Wavelength drive stuck on null -- number of times during logical record
31	Position of data element just before error above High 8 bits -- row number, low 8 bits -- column number
32-33	Time elapsed before next data element is received 2 word floating point - seconds
34	Position of second error
35-36	Time of second error
37	Position of third error
38-39	Time of third error
40	Wavelength drive stuck off null -- number times during logical record
41	Position of first error
42-43	Time of first error
44	Position of second error
45-46	Time of second error
47	Position of third error
48-49	Time of third error
50-54	Absolute temperatures 1-5
55	Junior memory I module temperature
56	Junior power supply temperature
57	Junior memory mod temperature

LOGICAL RECORD HEADER FORMAT

WORD NUMBER	CONTENTS
58-74	Differential temperatures 1-17
75	Missing data flag if >0 = number [illegible] missed or in error
76	Experiment number
77-86	Coeffi[illegible] of to correct [illegible] [illegible] floating point [illegible]
87-93	Offset [illegible] of additional lines [illegible] multiple line scan experiments) [illegible] offset from beginning of previous scan [illegible] length drive step positions
94-107	Starting and ending wavelengths of [illegible] lines x 10 (angstroms)
108-120	Gate times of additional lines in [illegible] 2 word floating point
121-133	Time interval between observations [illegible] lines in seconds. 2 word floating point
134-139	Gate time, clock and sync for [illegible]
140-149	Blank
150-256	User area

* 64000 for Integer
74000 for Floating Point

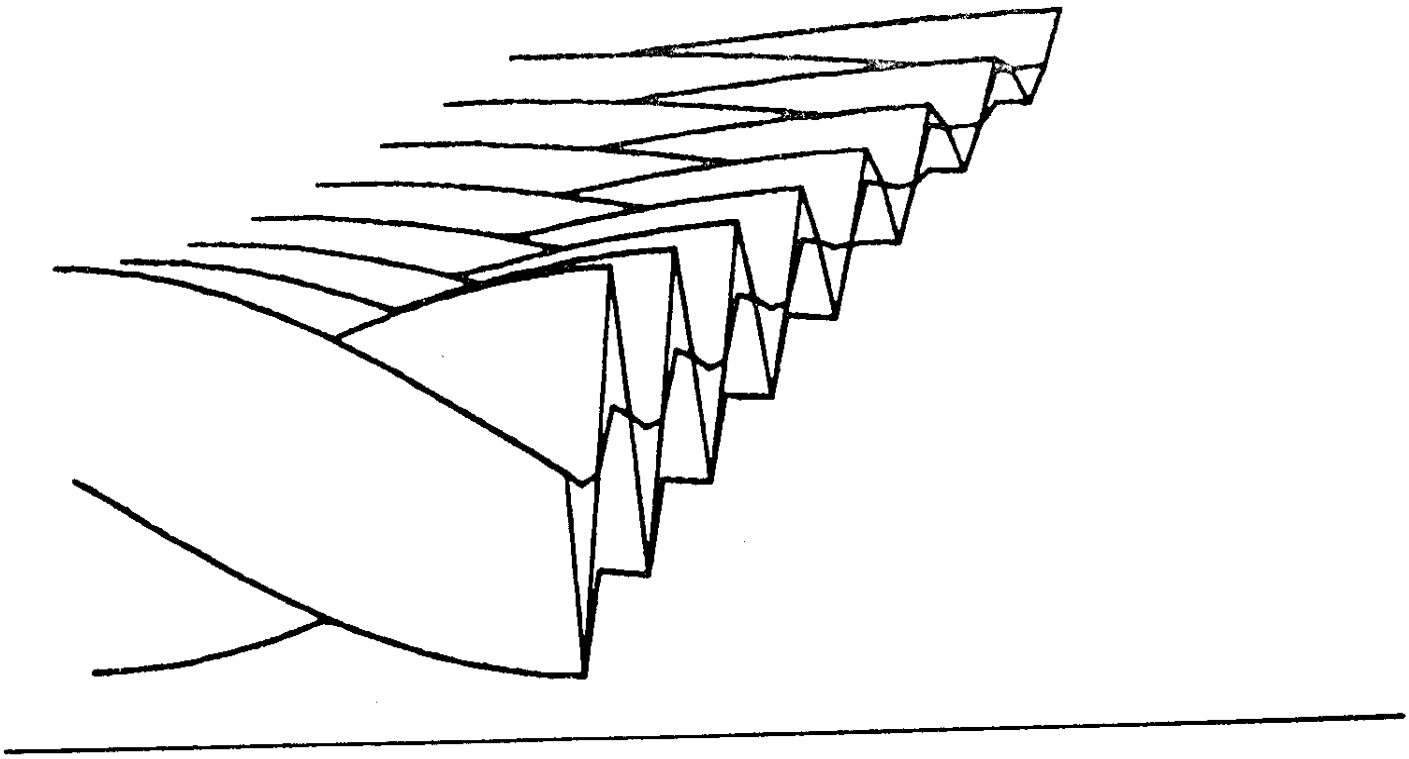
SAMPLE PROGRAM

```
PROC  PLOT3L,IZ,NP,NC,IXL,IYL,IZL,NSF
  IZ IS THE ARRAY TO BE PLOTTED
  NP= NUMBER OF COLUMNS. (1ST [illegible])
  NC= NUMBER OF ROWS IN [illegible] (2ND [illegible])
  IXL = LENGTH OF PLOT IN X DIRECTION. (MAX = 1024)
  IYL = LENGTH IN Y DIR.  (MAX Y = 780)
  IZL = HEIGHT OF PLOT IN Z DIR. (IYL + IZL MUST BE LT 780)
 NSF = +1 TO PLOT UPPER SURFACE.
       -1 TO PLOT LOWER SURFACE
       2 TO PLOT BOTH SURFACES

    DEF,TR,NC*NP,1,1                    ;DEFINE TEMP VECT
    MX,IZ,1,MAX,J                       ;GET MAX Z VAL
    MX,-IZ,[illegible],J          ;GET MIN Z VAL
    DX=IXL/(NP-1.)
    DY=IYL/(NC-1.)
    DZ=(1.*IZL)/(IZMAX+IZMIN)
        IF NSF NE 2 THEN JSF= [illegible]
        FOR ISF=JSF,NSF,2 DO BEGIN          ;LOOP FOR SURFACES
    FOR I=1,NC DO BEGIN
        K=I-1
        IFLG=0
        YPOS=K*DY
        FOR J=1,NP DO BEGIN
            IXP=K*DX
            IYP= [illegible]
            K=K+1
            IF (J EQ NP) OR (I EQ 1) THEN GOTO [illegible]
            IF ISF*(IYP-TR(K)) LT 0 THEN BEGIN
                IYP=TR(K)
                PL,IXP,IYP,IFLG
                IFLG=0   ;SET [illegible] FOR [illegible] VECT
                END ELSE BEGIN
L1:             TR(K)=IYP
                 IFLG=1  ;SET BRIGHT VECT FLG
                IF J LE 1 THEN PL,IX,IY,[illegible]
             END          ;END OF IF STMT
         END     ;END OF J LOOP
     END         ;END OF I LOOP
  END    ;END OF SURFACE LOOP
   PL,1  ;RET TO ALPHA
    RET
END
```

```
;       MAIN PROGRAM STARTS HERE
;
        READ 'SIZE?',ISIZ          ;GET DIMENSIONS FOR TEST
        NSIZ=ISIZ*2                ;  OF ELEMENTS
        DEF,IARR,ISIZ,ISIZ         ;DEFINE A 32 X 32 INTEGER ARRAY
                                   ;FILL WITH ELEMENT NUMBER
        FOR I=1,ISIZ DO FOR J=1,ISIZ DO IARR(J,I)=I*ISIZ+J-1
                                   ;MAKE A FUNNY PATTER
        JARR=1000.*SIN(IARR/(NSIZ/50.))/EXP(IARR/(NSIZ/2.))+1000.
        PLOT3D,JARR,ISIZ,ISIZ,400,300,3[illegible],2 ;PLOT BOTH SURFACES
        STOP
END                        ;END OF MAIN PROGRAM
```

SAMPLE PROGRAM OUTPUT



Appendix V

Contents of Words in Experiment and Record Headers

EXPERIMENT HEADER FORMAT
(FINAL DATA)

WORD NUMBER	WORD* TYPE	CONTENTS
1	I	Tape ID: Colorado = 1; Paris = 2; Raw data = 3
2	I	Control of SEAS: Colorado = 1; Paris = 0
3	I	Tape type: always = 3 for Final data tape
4	I	Number of minor frames with sync errors
5	I	2* number of minor frames of fill (erroneously added twice each minor frame by TSTMI and PACK)
6		Not used (always zero)
7	I	Orbit number (calculated)
8-9	I,I	S/C Clock -- 32 bit integer number
10	I	Time at start of experiment -- day
11	I	Time at start of experiment -- hour
12	I	Time at start of experiment -- minute
13	I	Time at start of experiment -- second
14	I	Time at end of experiment -- day
15	I	Time at end of experiment -- hour
16	I	Time at end of experiment -- minute
17	I	Time at end of experiment -- second
18	I	S/C mode from "Junior"
19		Never filled (always zero)
20	I	Number of logical records in experiment
21	I	Logical record size (in 16 bit words)
22	I	Code for ground station ID: (B means octal value) 24B=Rosman; 10B=Santiago; 20B=Joburg; 26B=Tananarive; 147B=Ascension; 45B=Hawaii; 107B=Mila; 25B=Ororal; 154B=Madrid, 5B=Quito; 143B=Bermuda; 0=Unknown

*I = integer; R = real; B = BCD

EXPERIMENT HEADER FORMAT -- FINAL DATA

WORD NUMBER	WORD TYPE	CONTENTS
23	I	Right ascension of spin axis x 10^2 (deg)
24	I	Declination of spin axis x 10^2 (deg)
25	I	Roll angle x 10^2 (deg)
26	I	Pitch angle x 10^2 (deg)
27	I	Commanded azimuth x 10^2 (arc min)
28	I	Commanded elevation x 10^2 (arc min)
29	I	Actual azimuth x 10^2 (arc min)
30	I	Actual elevation x 10^2 (arc min)
31	I	Component of velocity on sun line -- start of experiment (x 10^2 for FDPLOT)
32	I	Component of velocity on sun line - end of experiment (x 10^2 for FDPLOT)
33	I	Always = 0
34	I	Always = 0
35-44	I	Coefficients used to correct wavelength 5 floating point numbers
45		Not used
46-48		Used by FDPLOT only for file name (in PDP code, Radix-50)
49	I	Year
50-59		Blank
60	I	Experiment type
61	I	Experiment serial number
62	I	Experiment category (type of solar region)
63	I	Detector: T = 2; G = 3
64	I	Filter
65	I	Starting slit position

EXPERIMENT HEADER FORMAT -- FINAL DATA

WORD NUMBER	WORD TYPE	CONTENTS
66	I	Slit length (arc sec)
67-68	I,I	Starting wavelength drive step number (32 bits)
69-70	I,I	Ending wavelength drive step number (32 bits)
71	I	Starting wavelength x 10 (angstroms)
72	I	Ending wavelength x 10 (angstroms)
73-74	R	Gate time (sec)
75-76	R	Time interval between observations (sec)
77	I	Gate time, clock and sync
78	I	Number of observations on a line
79	I	Number of wavelength drive steps between observations
80-81	R	Number of angstroms between observations
82	I	Number of repeats over scan range
83	I	Number of disc positions
84	I	Number of slit positions
85	I	Number of steps between slit positions
86		Not used
87		Not used
88	I	Wavelength correction, from calibration experiment
89	I	Number of repeats of experiment before calibration
90	I	Slit position of max or min
91	I	Max or min flag: max = 1; min = 0
92-93	I,I	Wavelength drive position of max or min (32-bit step number)

EXPERIMENT HEADER FORMAT -- FINAL DATA

WORD NUMBER	WORD TYPE	CONTENTS
94	I	Wavelength drive position of max or min x 10 (angstroms)
95	I	Flag for experiment completeness: 0=no messages, 1=beginning message read, 2=end but no beginning message; 3-both beginning and end=complete experiment
96	I	React experiment: 0=normal; 1=react
97	I	Experiment sequence number
98	I	ith dimension of data array
99	I	jth dimension of data array
100	I	Spectral order: 1=1st order; 2-second order
101	I	First logical record on output tape file
102	I	Last logical record on output tape file
103	I	Wavelength drive stuck on null -- number of times during experiment set-up
104	I	Wavelength drive stuck off null -- number of times during experiment set-up
105-118	I,I	(Maximum seven) Starting and ending wavelengths of additional lines (in multiple line experiments) (angstroms and times 10 angstroms in FDPLOT)
119-132	R	Gate times of additional lines
133	I	Total wavelength drive errors
134-137	R	Starting and ending wavelength (angstroms)
138-149		Not used
150	I	Actual S/C mode
151	I	Modified type (1 to 48)
152	I	GMT year
153	I	Flag for min/max experiment: 1=minimum; 2-maximum
154	I	Total number of wavelength errors during experiment set-up and execution

EXPERIMENT HEADER FORMAT -- FINAL DATA

WORD NUMBER	WORD TYPE	CONTENTS
155	B	CDC display code file name left shifted, zero filled
156	I	2*number of minor frames read in (to current half of Major Frame) (error caused twice correct number added by SPEC and TSTMI)
157	I	Flag that S/C mode changed during experiment: 0=no change; 1=did change
158	I	Number of Orbital Geometry data entries (jth index) Array size=13 by j; maximum j=150
159	I	Number of Status Monitor entries (jth index), Array size = 70 by j; max. j = 50
160	I	Number of pointing coordinates entries (jth index) array size = 5 by j; max j = 225
161	I	Number of single-bit errors
162	I	Number of multi-bit errors
163	I	Day of last sunrise
164	I	Hour of last sunrise
165	I	Second of last sunrise
166	I	Second of last sunrise
167	I	Day of last sunset
168	I	Hour of last sunset
169	I	Minute of last sunset
170	I	Second of last sunset
171	I	Number of GSFC fill words written by Goddard into DMA
172	I	FINSCI program version number (starting at 0)
173	I	Wavelength drive offset flag: 0=absolute; 1=offset
174-5	R	Wavelength drive offset value (calculated, angstroms

EXPERIMENT HEADER FORMAT -- FINAL DATA

WORD NUMBER	WORD TYPE	CONTENTS
176	I	Time in GMT milliseconds when S/ (to closest Major Frame)
177	I	Job run-tape creation date (mmddy
178		Not used
179-80	R	Wheel spin rate (radians/degree)
197	I	Old experiment sequence number (0 if unchange

LOGICAL RECORD HEADER FORMAT
(FINAL DATA)

WORD NUMBER	WORD TYPE*	CONTENTS
1	I	144444B
2	I	144444B — Logical record ID
3	I	ith dimension of logical data array to follow
4	I	jth dimension of logical data array to follow
5	I	Variable type: 64000B = integer; 74000 = floating point
6-12		Not used
13	I	Repetition number (logical record number)
14	I	Commanded azimuth x 10^2 (arc min)
15	I	Commanded elevation x 10^2 (arc min)
16	I	New slit position
17	I	Starting wavelength x 10 (angstroms)
18	I	Ending wavelength x 10 (angstroms)
19-20	R	Number angstroms between observations
21	I	Time at start of logical record -- day
22	I	Time at start of logical record -- hour
23	I	Time at start of logical record -- minute
24	I	Time at start of logical record -- second
25	I	High voltage detector being used
26	I	Overflow indicator ($\geq$1 = overflow; 0 = no overflow)
27	I	Junior error -- count and location
28		Never filled (always 0)
29		Not used
30		Never filled (always =0)

* I = integer; R = real

LOGICAL RECORD HEADER FORMAT -- FINAL DATA

WORD NUMBER	WORD TYPE	CONTENTS
31	I	Number of times wavelength drive stuck on null during logical record
32	I	Position of data element just before error flagged in word above: high 8 bits = row number, low 8 bits = column number
33-34	R	Seconds of elapsed time between 'on null' error and next data element
35	I	Position of second error
36-37	R	Time of second error
38	I	Position of third error
39-40	R	Time of third error
41	I	Number of times wavelength drive stuck 'off null' during logical record
42	I	Position of first error
43-44	R	Time of first error
45	I	Position of second error
46-47	R	Time of second error
48	I	Position of third error
49-50	R	Time of third error
51-55	I	Absolute temperature 1-5
56	I	Junior memory I module temperature
57	I	Junior power supply temperature
58	I	Junior memory medium temperature
59-75	I	Differential temperatures #1-17
76	I	Missing data flag: 0 = no missing data; >0 = number of times data missing

LOGICAL RECORD HEADER FORMAT -- FINAL DATA

WORD NUMBER	WORD TYPE	CONTENTS
77	I	Experiment type number (1-23)
78-87	R	Coefficients used for wavelength calibration
88-94	I	Offset wavelengths of additional lines (in multiple line scan experiments). A 16 bit offset from beginning of previous scan in wavelength drive step positions
95-108	R	Starting and ending of additional lines x 10 (angstroms)
109-122	R	Gate times of additional lines in seconds
123-136	R	Time interval between observations for additional lines in seconds
137-143	I	Gate time, clock and sync for additional lines
144-147		Floating point starting and ending wavelength in angstroms
148-149		Not used
150	I	True spacecraft mode
151	I	Calculated actual azimuth (arc min) x 10^2 For raster experiments only
152	I	Calculated actual elevation (arc min) x 10^2 For raster experiments only
153	I	Junior recorded spacecraft mode
154	I	Number of GSFC fill words in logical record
155	R	Time of last sunrise (decimal days)
193-256	I	Junior memory dump

APPENDIX VII

SORTED FINAL DATA TAPES

CONTENTS, RANGE, AND CATALOG #'s

Tape Name	Catalog #	# Files	Start Date Yr Day Hr	End Date Yr Day Hr	Range of File Numbers
LB-1	#1	145	75-271-12	75-365-22	4159-7301
LB-2	#2	137	76-002-16	76-082-15	7336-9505
LB-3	#3	89	76-082-17	76-099-07	9507-10053
LB-4	#4	73	76-100-10	76-142-07	10078-11285
LB-5	#5	51	76-154-11	76-174-04	11526-11962
LB-6	#6	122	76-174-23	76-217-09	11982-12968
LB-7	#7	62	76-228-22	76-287-09	13299-15193
LB-8	#8	55	76-313-19	76-354-21	15786-16672
LB-9	#9	65	76-356-00	77-033-08	16710-17404
LB-10	#10	181	77-327-02	78-069-21	22133-23400
LB-11	#11	5	78-071-14	78-072-03	23463-23476
LB-12	#12	22	78-073-02	78-098-08	23481-24297
LB-13	#13	9	78-161-11	78-164-15	26321-26440
LB-14	#14	4	78-164-20	78-166-01	26446-26479
LB-15	#15	93	78-166-15	78-273-09	26492-29919

Tape Name	Catalog #	# Files	Start Date Yr Day Hr	End Date Yr Day Hr	Range of File Numbers
X-1	#100	201	75-179-07	76-099-18	264-10056
X-2	#101	293	76-100-04	76-255-03	10069-14124
X-3	#102	109	76-305-01	77-049-21	3900-17732
X-4	#103	3	78-118-09	78-203-02	24929-27943
R-1	#21	17	75-174-11	75-176-00	1-5880
R-2	#22	436	75-321-10	76-082-08	6172-9498
R-3	#23	377	76-134-15	76-264-21	10869-14412
R-4	#24	97	76-265-21	76-299-16	14428-15454
R-5	#25	299	76-301-11	77-005-11	15495-16950
R-6	#26	51	77-012-11	77-037-09	17077-17469
R-7	#27	240	77-256-15	78-175-10	21604-26635
M-1	#16	500	75-174-14	76-099-08	4-10054
M-2	#17	404	76-100-03	76-297-07	10068-15406
M-3	#18	125	76-300-11	77-048-04	15471-17690
M-4	#19	292	77-114-15	78-129-09	19090-25371
M-5	#20	161	78-131-21	78-261-06	25421-29627

Tape Name	Catalog #	# Files	Start Date Yr Day Hr	End Date Yr Day Hr	Range of File Numbers
SS-1	#28	570	75-174-17	75-199-21	14-1246
SS-2	#29	616	75-200-00	75-217-21	1247-2626
SS-3	#30	423	75-225-14	75-259-20	2655-3681
SS-4	#31	481	75-260-00	75-268-07	3684-30697
SS-5	#32	476	75-290-00	75-329-21	4953-6404
SS-6	#33	490	75-330-01	76-057-17	6409-8914
SS-7	#34	212	76-061-13	76-099-17	9034-10055
SS-8	#35	340	76-100-02	76-179-16	10067-12094
SS-9	#36	559	76-180-10	76-244-13	12112-13886
SS-10	#37	449	76-245-01	76-299-22	13897-15462
SS-11	#38	376	76-309-00	76-334-21	15461-16315
SS-12	#39	293	76-334-22	77-027-03	16315-17306
SS-13	#40	36	77-033-11	77-049-21	17406-17733
SS-14	#41	287	77-242-22	78-048-05	21506-23002
SS-15	#42	483	78-051-11	78-099-22	23014-24377
SS-16	#43	546	78-099-22	78-159-21	24379-26259
SS-17	#44	515	78-159-21	78-208-05	26259-28120
SS-18	#45	473	78-209-20	78-273-17	28156-29927

Tape Name	Catalog #	# Files	Start Date Yr Day Hr	End Date Yr Day Hr	Range of File Numbers
S-1	#46	244	75-174-13	75-209-22	2-2060
S-2	#47	298	75-210-03	75-249-19	2073-3357
S-3	#48	347	75-249-21	75-269-17	3359-4016
S-4	#49	432	75-269-22	75-289-20	4030-4949
S-5	#50	416	75-290-00	75-319-21	4952-6144
S-6	#51	178	75-319-23	75-349-21	6145-6883
S-7	#52	194	75-350-00	76-009-22	6887-7494
S-8	#53	307	76-010-10	76-034-21	7512-8256
S-9A	#54	101	76-035-06	76-042-18	8268-8537
S-9B	#55	96	76-042-20	76-049-21	8539-8713
S-10	#56	131	76-049-22	76-059-20	8714-8997
S-11	#57	127	76-061-10	76-079-13	9031-9442
S-12	#58	234	76-080-08	76-099-22	9464-10059
S-13	#59	134	76-099-22	76-114-15	10059-10372
S-14	#60	207	76-114-17	76-134-10	10374-10866
S-15	#61	386	76-137-10	76-148-07	10925-11416
S-16	#62	178	76-148-10	76-174-20	11418-11980
S-17	#63	151	76-174-22	76-204-21	11981-12732
S-18	#64	151	76-204-23	76-231-16	12733-13360
S-19	#65	144	76-235-09	76-264-20	13480-14411
S-20	#66	223	76-265-15	76-288-14	14424-15225
S-21	#67	65	76-294-10	76-299-21	15332-15459
S-22	#68	154	76-300-00	76-329-21	15463-16150
S-23	#69	177	76-329-23	76-354-19	16153-16670
S-24	#70	111	76-355-02	77-029-12	16676-17340
S-25	#71	100	77-029-23	77-044-23	17347-17615
S-26	#72	66	77-045-00	77-049-16	17617-17728
S-27	#73	220	77-114-15	77-279-17	19089-21852
S-28	#74	161	77-281-04	77-311-19	21860-22082
S-29	#75	124	77-325-12	77-358-05	22123-22443
S-30	#76	50	78-006-10	78-019-22	22444-22634
S-31	#77	126	78-019-22	78-049-00	22634-23010

S-32	#78	117	78-054-10	78-079-23	23074-23586
S-33	#79	441	78-080-10	78-129-22	23694-25379
S-34	#80	203	78-130-09	78-154-17	25386-25996
S-35	#81	460	78-154-21	78-209-05	26000-28139
S-36	#82	171	78-209-06	78-229-21	28140-28856
S-37	#83	355	78-229-23	78-273-15	28858-29925

Tape Name	Catalog #	# Files	Start Date Yr Day Hr	End Date Yr Day Hr	Range of File Numbers
V-1	#84	216	75-176-09	75-269-06	61-30695
V-2	#85	122	75-289-21	75-319-08	4950-6121
V-3	#86	110	75-320-08	75-349-21	6151-6885
V-4	#87	35	75-350-00	76-004-21	6888-7377
V-5	#88	189	76-004-22	76-058-01	7379-8921
V-6	#89	111	76-061-19	76-097-22	9044-10014
V-7	#90	76	76-100-01	76-129-20	10066-10702
V-8	#91	105	76-130-13	76-167-22	10745-11804
V-9	#92	139	76-177-05	76-210-05	12042-12823
V-10	#93	161	76-217-20	76-264-23	12979-14414
V-11	#94	130	76-265-00	76-299-21	14415-15460
V-12	#95	122	76-300-19	76-357-02	15478-16731
V-13	#96	82	77-023-17	77-049-22	17213-17734
V-14	#97	240	77-345-19	78-089-05	22303-23926
V-15	#98	327	78-090-05	78-206-07	23955-28081
V-16	#99	259	78-217-21	78-273-15	28289-29926

OSO-8

University of Colorado
Laboratory for Atmospheric and Space Physics

FINAL DATA TAPE PHYSICAL CHARACTERISTICS

The tapes supplied the National Space Science Data Center as the Final Data for the University of Colorado experiment have the following physical tape characteristics.

The ~~7-track,~~ 9-track, ~~800~~ 6250 BPI tapes were written with a PDP 11/34. The word length is 16 bits and the records are 512 bytes. Most data are integer; however some are floating point. The attached information indicates the PDP floating point format. The PDP writes a 7-track tape as shown below:

PDP Word	0 1 2 3	4 5 6 7	8 9 10 11	12 13 14 15
PDP Tape Word Part	4	3	2	1

		Word Part
9-track	x x 12 13 14 15	1
The ~~7-track~~	x x 8 9 10 11	2
tape	x x 4 5 6 7	3
↓	x x 0 1 2 3	4

The PDP uses two's complement representation.

The Final Data tapes and the data catalog are written in the PDP "DOS image/core dump" mode which produces a tape where the files have a 7 (16-bit) word header followed by binary records of length 512 bytes. The header contains Radix-50 title information for internal PDP use. Files are separated by standard End of File markers. See the Final Report (Appendix IV) SOL manual, Section 8, for the contents of the data files and page 41 of the Final Report for the contents of the catalog files.

The program tape (OSO.PRG) is an ANSI standard tape using 7-bit ASCII characters, standard labels and record markers, and 512-byte records.

See Section V, the Tape Archive, of the Final Report for a discussion of the experiment types and sorting and cataloging methods.

March, 1980

A.2 FLOATING-POINT FORMATS

The exponent for both 2-word and 4-word floating-point formats is stored in excess 128 (200(octal)) notation. Binary exponents from -128 to +127 are represented by the binary equivalents of 0 through 255 (0 through 377(octal)). Fractions are represented in sign-magnitude notation with the binary radix point to the left. Numbers are assumed to be normalized and, therefore, the most significant bit is not stored, because of redundancy (this is called "hidden bit normalization"). This bit is assumed to be a 1 unless the exponent is 0 (corresponding to 2-128) in which case it is assumed to be 0. The value 0 is represented by two or four words of zeros. For example, +1.0 would be represented by:

```
40200
0
```

in the 2-word format, or:

```
40200
0
0
0
```

in the 4-word format. The decimal number -5 is:

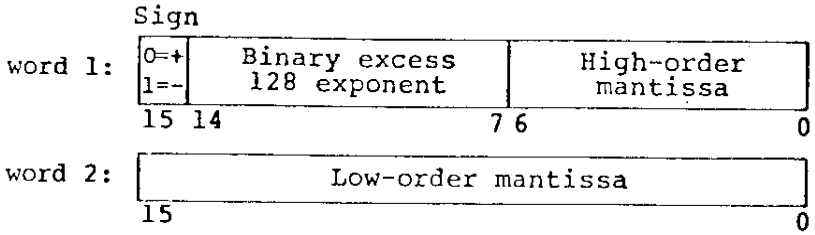
```
140640
0
```

in the 2-word format, or:

```
140640
0
0
0
```

in the 4-word format.

A.2.1 Real Format (2-Word Floating Point)



Since the high-order bit of the mantissa is always 1, it is discarded, giving an effective precision of 24 bits, or approximately 7 digits of accuracy. The magnitude range lies between approximately $.29 \times 10^{-38}$ and $.17 \times 10^{39}$.

DUMP OF TAPE GOUT-1

75-057A-01A

D-38052
C-21878

INPUT TAPE GOUT-1 ON MT6
DATA INPUT 07 NF 244 SR 1 1 2 SR 244 1 2

DATA INPUT 07 NF 244 SR 1 1 2 SR 244 1 2

DAY 174
6/23/75

FILE 1 RECORD 1 LENGTH 28BYTES

(0)	160013000005	001400020602	000000001717	171707100302	00000000

FILE 1 RECORD 2 LENGTH 1024BYTES

(0)	010000000100	000003000000	000000000000	000000000000	170100000000	000010061103	161200001500	000016020000
(48)	150100001612	000015000000	000300000503	000013000000	000000000100	000004110000	050200000217	050610171101
(96)	120313101401	000000000000	001717171515	000005171717	040016170516	151700000000	000000001112	140312001011
(144)	101400131200	100217010612	111203100303	161104111517	121304110113	151100000000	010402031103	040307031003
(192)	130400000602	030700000000	000000000000	000000000000	000000000000	000000000000	000000000000	000001000000
(240)	060204000001	000002000000	030000000501	000012000000	000000000400	050217171717	101116171611	150400111704
(288)	151317030312	000707151703	150312000400	050204110000	040000000312	150312000715	130400000000	000000000000
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000100	000000000000
(384)	020000000411	000001000000	020000000100	000001000000	000000000000	000000000000	000000000000	000000000000
(432)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(480)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(528)	000000001017	050410060106	161705040417	111100000000	000000000000	000000000000	000000000000	000000000000
(576)	000000000000	000000000000	000000000000	000000000000	040000001304	000000000000	000000001506	131500000400
(624)	000000000500	000001000000	100000000405	000014130200	161200001400	000011030000	170000001612	000014000000
(672)	110300001700	000000000000	000000000100	000017050704	000004170000	000000000000	000000001701	000407170110
(720)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(768)	000000000000	000000000000	000000000602	030700000000	000000000000	000000000000	000000000000	000000000000
(816)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(864)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(912)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(960)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1008)	000000000000	000000000000	00000000					

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
1	10	10	1024	0	0	0	0	0	0

DAY 209
07/28/75

FILE 244 RECORD 1 LENGTH 28BYTES

(0)	000113001603	011400020602	000000001717	171707100302	00000000

FILE 244 RECORD 2 LENGTH 1024BYTES

(0)	010003000000	000003000000	000000000006	000000000000	050302000200	000000000010	011500000601	000016000000
(48)	020100000115	000007010000	070000000603	000005000000	000000000500	000000000004	000100000713	060005020201
(96)	020305011604	000001060217	051502001010	071704100200	141602000305	151700000000	000000001112	140312001011
(144)	101400131200	100217010612	111203100303	161104111517	121304110113	151100000000	010400030203	000306030003
(192)	130400000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000001000000
(240)	020100000400	000003000000	000000001400	000004010000	020000000306	010702000000	130301071507	170217071702
(288)	010216031612	070403021603	120007150202	170303000000	040100001414	160314141414	020000000000	000000000000
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000100	000000000000
(384)	140010000010	000000100000	020000000100	000005000000	000000000000	000000000000	000000000000	000000000000
(432)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(480)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(528)	000000000711	050414160717	071105041410	161700000000	000000000000	000000000000	000000000000	000000000000
(576)	000000000000	000000000000	000000000000	000005000000	010000001304	000000000000	000000001506	131500001704
(624)	010000001203	000002010000	161100001003	010006000000	011500000601	000010000000	010000000115	000007010000
(672)	070000001003	000002030000	000000000000	000000000000	000000000516	111200000000	000000000102	000415100703
(720)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(768)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(816)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(864)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(912)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(960)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1008)	000000000000	000000000000	00000000					

DUMP OF TAPE GOUT-38

75-057A-01A

D-38089

C-21914

INPUT TAPE GOUT-38 ON MT5
DATA INPUT 07 NF 355 SR 1 1 2 SR 355 1 2

08/17/78

DAY 229

FILE 1 RECORD 1 LENGTH 28BYTES

(0)	060613001601	031700020602	000000001717	171703030402	00000000

FILE 1 RECORD 2 LENGTH 1024BYTES

(0)	010000000100	000003000000	000000000000	000000000000	171703041200	000000150705	051600000701	000017000000
(48)	100190000516	000007010000	020100001003	000002000000	000000000200	000000100000	040100000714	040105170600
(96)	111203021405	000016121317	170003001616	131704010000	130707150705	020000000000	000000001112	140312001011
(144)	101400131200	100217010612	111203100303	161104111517	121304110113	151100000000	010402031003	100305031003
(192)	160400000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000002000000
(240)	020500001202	000003000000	000000001500	000004010000	010000000404	050701000000	040405071207	140312071403
(288)	021200041405	171003120004	120007150402	170701000000	000000000000	000000000000	020000000000	000000000000
(336)	000000000000	000000000000	000000000000	000000000000	010000000000	000000000000	000000000300	000000000000
(384)	121300070001	000010000000	020000000100	000002000000	000000000000	000000000000	000000000000	000000000000
(432)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(480)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(528)	000000000114	050411130710	011405041113	071000000000	000000000000	000000000000	000000000000	000000000000
(576)	000000000000	000000000000	000000000000	000002000000	120100001604	000002000000	000000001506	131500100500
(624)	000000000500	000002000000	130000000401	000011020000	051600000701	000017000000	000200000516	000007010000
(672)	170000000002	000000000000	020000000100	000000000000	000000000000	000000000701	000403050202	
(720)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(768)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(816)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(864)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(912)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(960)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1006)	000000000000	000000000000	00000000					

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
1	12	12	1024	0	0	0	0	1	1

09/30/78

DAY 273

FILE 355 RECORD 1 LENGTH 28BYTES

(0)	070613000316	101700020602	000000001717	171703030402	00000000

FILE 355 RECORD 2 LENGTH 1024BYTES

(0)	010000000100	000003000000	000200000002	000000000000	031106041500	000001130702	010101001700	000007020000
(48)	070100000101	010017000000	020300000101	000007000000	000000000200	000000000001	100000001101	050212151300
(96)	150600020101	171706060717	030003001616	050010150700	021003020205	020000000000	000000001112	140312001011
(144)	101400131200	100217010612	111203100303	161104111517	121304110113	151100000000	010400030303	010300030003
(192)	160400000000	000000000000	000000000000	000000000000	000000000000	000000000000	000002000000	
(240)	050200001200	000003000000	000000001500	000004010000	010000000713	121601000000	071312160107	060301070603
(288)	021216031405	171003121603	120007150202	170701000000	000000000000	000000000000	020000000000	000000000000
(336)	000000000000	000000000000	000000000000	000000000000	010000000000	000000000000	000000000300	000000000000
(384)	051604070004	000000040000	020000000100	000002000000	000000000000	000000000000	000000000000	000000000000
(432)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(480)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(528)	000000001612	050403140703	161205040314	070300000000	000000000000	000000000000	000000000000	000000000000
(576)	000000000000	000000000000	000000000000	000007000000	120100001604	000002000000	000000001506	131500100001
(624)	000000001600	000004000000	000200001603	000005000000	010101001700	000005020000	000000000101	010017000000
(672)	050200000000	000000010000	020000000100	000000000114	000000000000	000000000000	000000001601	000406051017
(720)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(768)	000000000000	000000000000	000000001401	140000000000	000000000000	000000000000	000000000000	000000000000
(816)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(864)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(912)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(960)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1008)	000000000000	000000000000	00000000					

FILE	INPUT	DATA RECORDS	MAX.	READ ERROR SUMMARY	INPUT RETRIES

FORM 1413

DUMP OF TAPE GOUT1

75-057A-01B

D-38090
C-21824

INPUT TAPE GOUT1 ON MT5
DATA INPUT 07 OF 145 FL 1 2 0 SR 145 1 2

09/28/75
DAY 271

FILE 1 RECORD 1 LENGTH 288YTES
(0) 020113001705 071400020602 000000001717 171700070002 00000000

FILE 1 RECORD 2 LENGTH 1024BYTES

(0)	010000000100	000003000000	000000000000	000000000000	051505001600	000000000707	170001000400	000012010000
(48)	060100001700	010014000000	120200001103	000011000000	000000000401	000013000000	040100001412	050202100200
(96)	171311021215	000010121517	051317170013	151712131717	131402001717	010000000000	000000001112	140312001011
(144)	101400131200	100217010612	111203100303	161104111517	121304110113	151100000000	010400030403	010305031103
(192)	130400000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000001010000
(240)	030000000102	000003000000	000000001500	000004010000	010000001206	050701000000	041504071007	140300101403
(288)	001001040000	000005100104	101316011000	040613000000	170000001111	160311111111	010000000401	000000000000
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000300	000000000000
(384)	170300011300	000001000000	020000000100	000004010000	000000000000	000000000000	000000000000	000000000000
(432)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(480)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(528)	000000000114	050415070110	011405041101	121100000000	000000000000	000000000000	000000000000	000000000000
(576)	000000000000	000000000000	000000000000	000010000000	010100001304	000000000000	000000001506	131500001101
(624)	000000000201	000006000000	010300000010	000003040200	170001001400	000010010000	040100001700	010014000000
(672)	100100000401	000000000000	020000000100	000012100314	000000000000	000000000000	000000001301	000412001607
(720)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(768)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(816)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(864)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(912)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(960)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1008)	000000000000	000000000000	00000000					

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
1	51	51	1024	0	0	0	0	0	0

12/31/75
DAY 365

FILE 145 RECORD 1 LENGTH 288YTES
(0) 050113001700 031500020602 000000001717 171700070002 00000000

FILE 145 RECORD 2 LENGTH 1024BYTES

(0)	010000000100	000003000000	000000000000	000000000000	060613001400	000004141210	150601000601	000013000000
(48)	160000001506	010006010000	050100001000	000011000000	000000001500	000013000000	100000001605	100415111017
(96)	150111020503	010001000400	000000000200	040004000000	100117171013	151700000000	000000001112	140312001011
(144)	101400131200	100217010612	111203100303	161104111517	121304110113	151100000000	010400030703	030300030103
(192)	130400000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000001010000
(240)	030000000100	000003000000	000000001500	000004010000	010000000207	050701000000	141504071007	140317071403
(288)	001001040000	000005100104	101316011000	040613000000	170000001111	160311111111	010000000401	000000000000
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000100	000000000000
(384)	051014011300	000001000000	020000000100	000015000000	000000000000	000000000000	000000000000	000000000000
(432)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(480)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(528)	000000000114	050415020010	011405041114	101100000000	000000000000	000000000000	000000000000	000000000000
(576)	000000000000	000000000000	000000000000	000010000000	110200001304	000000000000	000000001506	131500001700
(624)	000000001400	000004000000	160100001205	000003050100	150601000501	000003020000	110100001506	010005010000
(672)	030200001101	000000000000	020000000100	000012100314	000000000000	000000000000	000000001201	000413050314
(720)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(768)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(816)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(864)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(912)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(960)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1008)	000000000000	000000000000	00000000					

FILE	INPUT	DATA RECORDS	MAX.	READ ERROR SUMMARY	INPUT RETRIES

FORM 1413

DUMP OF TAPE GOUT15

75-057A-01B D-38104 C-21838

INPUT TAPE GOUT15 03 MTS
DATA INPUT 07 DF 93 FL 1 2 0 SR 93 1 2

6/15/78

DAY 166

FILE	1 RECORD	1 LENGTH	288YTES					
(0)	040613001013	121500020602	000000001717	171703030402	00000000			

FILE	1 RECORD	2 LENGTH	1024BYTES					
(0)	010000000100	000003000000	000000000000	000000000000	030400040600	000014050404	061200001700	000005020000
(48)	050000000612	000000010000	050000000603	000011000000	000000000217	020006000000	100000000001	001007170101
(96)	030216001303	000012000400	001617171000	040007161717	010004121216	171700000000	000000001112	140312001011
(144)	101400131200	100217010612	111203100303	161104111517	121304110113	151100000000	010402030603	040311030203
(192)	160400000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000001010000
(240)	010000000001	000003000000	000000001500	000004010000	030000000415	100503000000	001410051516	060417160604
(288)	011616031612	070403021703	120007150400	130006000000	040000000302	160312000715	100200000401	000000000000
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000300	000000000000
(384)	140707060600	000001000000	010000000100	000014170000	000000000000	000000000000	000000000000	000000000000
(432)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(480)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(528)	000000000216	050410060617	021605040501	151700000000	000000000000	000000000000	000000000000	000000000000
(576)	000000000000	000000000000	000000000000	000010000000	110200001604	000000000000	000000001506	131500101202
(624)	000000000002	000012000000	050500001417	010000020001	061200001700	000002020000	060000000612	000017000000
(672)	020200000600	000000000000	020000000100	000014040704	000004130000	000000000000	000000001601	000407040712
(720)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(768)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(816)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(864)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(912)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(960)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1008)	000000000000	000000000000	00000000					

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
1	1524	1524	1024	0	1	0	0	1	1

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DAY 273

FILE	93 RECORD	1 LENGTH	288YTES					
(0)	070613001713	101700020602	000000001717	171703030402	00000000			

FILE	93 RECORD	2 LENGTH	1024BYTES					
(0)	010000000100	000003000000	000000000000	000000000000	171006041500	000003140302	010101001100	000010030000
(48)	000000000101	010012000000	140000000402	000011000000	000000000401	000013000000	130700000102	050205161300
(96)	020600021702	171700000000	000000000400	000010000000	030300151407	151700000000	000000001112	140312001011
(144)	101400131200	100217010612	111203100303	161104111517	121304110113	151100000000	010400030303	000311030403
(192)	160400000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000001010000
(240)	050000000400	000003000000	000000001500	000004010000	013000000717	121601000000	010612161606	060305070603
(288)	001001040000	000005100104	101316011000	040613000000	170000001111	160311111111	010000000401	000000000000
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000300	000000000000
(384)	171504071300	000001000000	020000000100	000004010000	000000000000	000000000000	000000000000	000000000000
(432)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(480)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(528)	000000001612	050407031502	161205040017	050400000000	000000000000	000000000000	000000000000	000000000000
(576)	000000000000	000000000000	000000000000	000010000000	110200001604	000000000000	000000001506	131500001101
(624)	000000000301	000006000000	010300000010	000003040200	010101001100	000017000000	110100000101	010011000000
(672)	170000001101	000000000000	020000000100	000016100314	000000000000	000000000000	000000001701	000401071500
(720)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(768)	000000000000	000000000000	000000000601	140000000000	000000000000	000000000000	000000000000	000000000000
(816)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(864)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(912)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(960)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1008)	000000000000	000000000000	00000000					

FILE	INPUT	DATA RECORDS	MAX.	READ ERROR SUMMARY	INPUT RETRIES

DUMP OF TAPE GOUT1

75-057A-01C

D-38105
C-21915

INPUT TAPE GOUT1 OS PTS
DATA INPUT 97 AF 216 FL 1 2 3 SK 216 1 2

FILE 1 RECORD 1 LENGTH 28BYTES
(0) 160013001703 011400020602 000000031717 171705060302 00000000

DAY 176 6/25/75

FILE 1 RECORD 2 LENGTH 1024BYTES
(0) 010000000000 000003000000 000000000000 000000000000 130300000000 000016060705 001300001100 000015010000
(48) 120300000013 000011000000 160100000103 000010000000 000000000100 000000001200 070400001201 050611141101
(96) 141512101000 000000000000 000000001602 000011161717 010601000507 010000000000 000000001112 140312001011
(144) 101400131200 100217010612 111203100303 161104111517 121304110113 151100000000 010400030303 010302030103
(192) 130400000103 140000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000010000000
(240) 120000000300 000003000000 000000001001 000012000000 020000001213 170502000000 140617050706 000313060003
(288) 000000040000 000007000004 040116120400 020310020000 020000000302 150312000715 101400000000 000000000000
(336) 000300000000 100000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(384) 150300001002 000000040000 020000000100 000001000000 000000000000 000000000000 000000000200 000000000000
(432) 000300000000 000003000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(480) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(528) 000000001211 050402070416 121105041305 011700000000 000000000000 000000000000 000000000000 000000000000
(576) 000000000000 000000000000 000000000000 000010000000 100000001304 000000000000 000000001506 131500100100
(624) 000000000300 000001000000 030000000400 000003000000 000000000000 000000000013 000011000000
(672) 040100000500 000000000000 020000000000 000000000000 000000000000 000000001701 000405031100
(720) 000300000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(768) 000000000000 000000000000 000000000103 140000000000 000000000000 000000000000 000000000000 000000000000
(816) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(864) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(912) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(960) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(1008) 000000000000 000000000000 00000000

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO P	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
1	19	17	1024	0	0	0	0	0	0

FILE 216 RECORD 1 LENGTH 28BYTES
(0) 061013001303 071600020602 000000001717 171705060302 00000000

DAY 269 9/26/75

FILE 216 RECORD 2 LENGTH 1024BYTES
(0) 010000000100 000003000000 011003000717 030000000000 031305000600 000001150105 150001000600 000001010000
(48) 150000001500 010007000000 050000000703 000012000000 000000000200 000000140200 040100001410 040215030300
(96) 160011021410 000012121717 040301001612 171713030100 061502001501 151700000000 000000001112 140312001011
(144) 101400131200 130217010612 111203100303 161104111517 121304110113 151100000000 010400030303 060311030303
(192) 130400001506 160000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000010000000
(240) 170100000200 000003000000 000000001500 000004010000 020000001713 070102000000 130507011701 040304020403
(288) 000001040000 000007000104 150312000400 101413000000 120000001404 160314141414 101400000000 000000000000
(336) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000300 000000000000
(384) 071607071300 000000040000 020000000100 000002000000 000000000000 000000000000 000000000000 000000000000
(432) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(480) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(528) 000000000612 050412051214 061205041415 121500000000 000000000000 000000000000 000000000000 000000000000
(576) 000000000000 000000000000 000000000000 000010000000 100000001304 000000000000 000000001506 131500001004
(624) 000000000403 000000010000 161000001300 010005010000 150001000600 000017000000 030200001500 010006000000
(672) 170000009302 000001100100 000000000100 000004040314 000000000000 000000000000 000000001501 000410040401
(720) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(768) 000000000000 000000000000 000000001506 160000000000 000000000000 000000000000 000000000000 000000000000
(816) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(864) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(912) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(960) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(1008) 000000000000 000000000000 00000000 000000000000 000000000000 000000000000 000000000000 000000000000

FILE	INPUT	DATA RECORDS	MAX.	READ ERROR SUMMARY	INPUT RETRIES

D-38120
C-21927

75-057A-01C

08/05/78

DUMP OF TAPE SOUT16

INPUT TAPE SOUT16 ON MT5
DATA INPUT 07 NF 259 FL 1 2 0 SR 259 1 2

DAY217

FILE	1 RECORD	1 LENGTH	256BYTES					
(0)	050613000701	161400020602	000000001717	171703030402	00000000			

FILE	1 RECORD	2 LENGTH	1024BYTES					
(0)	010000000100	000003000000	030400000603	010000000000	110403041100	000004020111	111500000501	000007030000
(48)	140000001115	000006010000	020200000703	0000010000000	000000000200	000000040100	100000000004	110007060201
(96)	011405010007	171705001317	021713171700	131711171317	101202121714	151700000000	000000001112	140312001011
(144)	101400131200	100217010612	111203100303	161104111517	121304110113	151100000000	010402031003	020310031103
(192)	160400000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000010000000
(240)	140200001200	000003000000	000000001500	000004010000	010000000505	060701000000	011705071406	140301071403
(288)	001001040000	000010100104	021405171000	040605000000	110100000000	170300000000	101400000000	000000000000
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000300	000000000000
(384)	011016060500	000000040000	020000000100	000002000000	000000000000	000000000000	000000000000	000000000000
(432)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(480)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(528)	000000000114	050417161205	011405040705	130600000000	000000000000	000000000000	000000000000	000000000000
(576)	000000000000	000000000000	000000000000	000010000000	000200001604	000000000000	000000001506	131500101203
(624)	000000001302	000015000000	030700000516	000006020000	111500000501	000001020000	000300001115	000005010000
(672)	010200000003	000004020000	020000000100	000004040314	000000000000	000000000000	000000001001	000407020602
(720)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(768)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(816)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(864)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(912)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(960)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1008)	000000000000	000000000000	00000000					

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
1	25	25	1024	0	0	0	0	0	0

09/30/78

DAY 273

FILE	259 RECORD	1 LENGTH	256BYTES					
(0)	070613000416	151700020602	000000001717	171703030402	00000000			

FILE	259 RECORD	2 LENGTH	1024BYTES					
(0)	010000000100	000003000000	050401000503	010000000000	031106041500	000002150702	010101001700	000002030000
(48)	070200000101	010000010000	030200000703	000010000000	000000000200	000000140200	100000000701	050212151300
(96)	150600021700	171714141517	139611170215	151700071117	151111141410	151700000000	000000001112	140312001011
(144)	101400131200	100217010612	111203100303	161104111517	121304110113	151100000000	010400030303	010300030103
(192)	160400000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000010000000
(240)	120100000500	000003000000	000000001500	000004010000	010000001116	121601000000	051012161606	060304070603
(288)	000001040000	000007000104	150312000400	101413000000	120000001404	160314141414	041300000000	000000000000
(336)	000000000009	000000000000	000000000000	000000000000	000000000000	000000000000	000000000300	000000000000
(384)	061604071300	000000040000	020000000100	000002000000	000000000000	000000000000	000000000000	000000000000
(432)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(480)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(528)	000000001612	050406101702	161205040100	000400000000	000000000000	000000000000	000000000000	000000000000
(576)	000000000000	000000000000	000000000000	000010000000	000200001604	000000000000	000000001506	131500101703
(624)	000000000103	000016000000	160700001017	000011010000	010101001700	000005020000	000000000101	010017000000
(672)	050200000000	000010060000	020000000100	000000050314	000000000000	000000000000	000000001601	000411000317
(720)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(768)	000000000000	000000000000	000000001501	140000000000	000000000000	000000000000	000000000000	000000000000
(816)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(864)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(912)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(960)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1008)	000000000000	000000000000	00000000					

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#

DUMP OF TAPE GOUT1

75-057A-01D

D-38121
C-71850

INPUT TAPE GOUT1 ON MT6
DATA INPUT 07 NF 570 FL 1 2 0 SR 570 1 2

06/23/75

DAY 174

FILE 1 RECORD 1 LENGTH 288YTES
(0) 160013001207 001400020602 000000001717 171704060302 00000000

FILE 1 RECORD 2 LENGTH 1024BYTES
(0) 010000000000 000003000000 000000000000 000000000000 020200000000 000011031403 161200000101 000004030000
(48) 030200001612 000001010000 070300000100 000010000000 000000000100 000000041100 050200001417 050602171101
(96) 140313100501 000001011317 000000001614 131701001717 110202001701 020000000000 000000001112 140312001911
(144) 101400131200 100217010612 111203100303 161104111517 121304110113 151100000000 010400030103 050303030403
(192) 130400001400 000000000000 000000000000 000000000000 000000000000 000000000000 000007000000 000000700000
(240) 030100000400 000003000000 000000000000 000004060000 020000001417 171002000000 150517100716 150200171502
(288) 151317030312 000707141703 040116120400 050200120000 010000000312 140312000715 010000000000 000000000000
(336) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000300 000000000000
(384) 160000000012 000002000000 020000000100 000001000000 000000000000 000020021702 130217020000 000000000000
(432) 000000000000 000000000000 000000000000 000000000000 000000000000 000000001513 170300120007
(480) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(528) 000000000211 050413160516 031105041004 000000000000 000000000000 000000000000 000000000000 000000000000
(576) 000000000000 000000000000 000000000000 000010000000 070000001304 000000000000 000000001506 131500000400
(624) 000000000500 000001000000 100000001600 000000000000 161200000101 000014020000 040000001612 000001010000
(672) 140200000400 000000000000 000000000000 000000000000 000000000000 000000000000 000001001701 000400110010
(720) 000000000000 000000000000 000000000000 000000000000 000000000000 000003000000 000000000000 000000000000
(768) 000000000000 000000000000 000000001400 000000000000 000000010000 000000000000 000000000000 000000000000
(816) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(864) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(912) 000000000000 000000000060 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(960) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(1008) 000000000000 000000000000 00000000

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT METRICS RECS.	TOTAL#
1	11	11	1024	0	0	0	0	0	0

07/18/75

DAY 199

FILE 570 RECORD 1 LENGTH 288YTES
(0) 170013000407 151400020602 000000001717 171704060302 00000000

FILE 570 RECORD 2 LENGTH 1024BYTES
(0) 010000000100 000003000000 000000001704 000000000000 151101000100 000001161215 071400001501 000015020000
(48) 000300001014 000000000000 010000001100 000010000000 000300000400 000016050200 040100001012 101005113701
(96) 020215001213 000000000000 000000000600 000004000000 021602001702 151700000000 000000001112 140312001911
(144) 101400131200 100217010612 111203100303 161104111517 121304110113 151100000000 010400030103 050303030403
(192) 130400001617 050000000000 000000000000 000000000000 000000000000 000000000000 000007000000 000000700000
(240) 050000000400 000003000000 000000001702 000004100300 020000001405 000302000000 051117021215 020304162003
(288) 000000040000 000005000004 101316010400 020310140000 010000000312 140312000715 170000000000 000000000000
(336) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000100 000000000000
(384) 161504001014 000003000000 020000000100 000010000000 000000000000 000004170203 171702030003 030313000303
(432) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(480) 000000040000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(528) 000000000212 050412131113 021205041311 121500000000 000000000000 000000000000 000000000000 000000000000
(576) 000000000000 000000000000 000000000000 000010000000 070000001304 000000000000 000000001506 131500001701
(624) 000000000703 000007000000 160300000010 000006000000 071400000501 000004020000 000100000714 000000510000
(672) 040200000001 000012020000 000000000000 000000000000 000000000000 000000000000 000001000402 000417063101
(720) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(768) 000000000000 000000000000 000000001617 050000000000 000000000000 000000000000 000000000000 000000000000
(816) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(864) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(912) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(960) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(1008) 000000000000 000000000000 00000000

FILE	INPUT	DATA RECORDS	MAX.	READ ERROR SUMMARY	INPUT METRICS

D-38138
C-21866

75-057A-01D

7/28/78

DAY 209

DUMP OF TAPE SCOUT-1

INPUT TAPE SCOUT-1[illegible] ON MT5
DATA INPUT 07 NF 473 SR 1 1 2 SM 473 1 2

FILE 1 RECORD 1 LENGTH 288YTES
(0) 060613001405 07140002060[illegible] 000000001717 171703030402 00000000

FILE 1 RECORD 2 LENGTH 1024BYTES
(0) 010000000100 000003000000 000000000000 000000000000 171402041100 000001021400 011500001401 000001400000
(48) 130100000115 000004010000 010100000603 000010000000 000000000100 000010140000 050200001305 151016170701
(96) 061415001714 171703171717 000000000717 171706000000 021613021704 151700000000 000000001112 140312001011
(144) 101400131200 100217010612 111203100303 161104111517 121304110113 151100000000 010402051003 011305030603
(192) 160400000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000007000000
(240) 100200000400 000003000000 000000001500 000004010000 010000001205 100701000000 010307071105 140301061403
(288) 000401040000 000002040104 140517101000 130404060000 030300000507 150317100214 120500000000 000000000000
(336) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000200 000000000000
(384) 141715060406 000002000000 020000000100 000001000000 000000000000 000013061405 130714050000 000000000000
(432) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000004 010400000000
(480) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(528) 000000000114 050414010600 011405040715 060300000000 000100000000 000000000000 000000000000 000000000000
(576) 000000000000 000000000000 000000000000 000015000000 171000001604 000000000000 000000001506 131500101000
(624) 000000000700 000002000000 000100001601 000001000000 011500000101 000006030000 130300000115 000001010000
(672) 060300001303 000000000000 020000000100 000004010414 000000000000 000000000000 000001001401 000411060611
(720) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(768) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(816) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(864) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(912) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(960) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(1008) 000000000000 000000000000 00000000

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO L	SHORT	UNDEF.	INPUT RETRIES RECS.	TOTAL
1	10	10	1024	0	0	0	0	0	0

FILE 473 RECORD 1 LENGTH 288YTES
(0) 070613000515 10170002060[illegible] 000000001717 171703030402 00000000

9/30/78

DAY 273

FILE 473 RECORD 2 LENGTH 1024BYTES
(0) 010000000100 000003000000 000000000000 000000000000 041106041500 000013011102 [illegible] [illegible]
(48) 110300000101 010001010000 130200000700 000013000000 000000000100 000001000000 100000000601 050215151500
(96) 150600020600 171700000000 061117170400 000001151717 071712150717 171700000000 000000001112 140312001011
(144) 101400131200 100217010612 111203100303 161104111517 121304110113 151100000000 010400030303 011305030203
(192) 160400000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(240) 020100000701 000003000000 000000001500 000004010000 010000009513 121601000000 051312161107 060301070603
(288) 000202040000 000000020204 071503121000 121701000000 000000000000 000000000000 010000000000 000000000000
(336) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(384) 071604070100 000001000000 020000000100 000001000000 000000000000 000000000000 000000000000 000000000000
(432) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(480) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(528) 000000001612 050410011003 161205041001 100300000000 000000000000 000000000000 000000000000 000000000000
(576) 000000000000 000000000000 000000000000 000010000000 159100001604 000000000000 000000001506 151500100000
(624) 000000000300 000001000000 010000000000 000000000000 010101000101 000001400000 030200000101 010001010000
(672) 140000000302 000000000000 020000000100 000000000000 000000000000 000000000000 [illegible] [illegible]
(720) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 [illegible] [illegible]
(768) 000000000000 000000000000 000001001601 140000000000 000000000000 000000000000 [illegible] [illegible]
(816) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 [illegible] [illegible]
(864) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 [illegible] [illegible]
(912) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 [illegible] [illegible]
(960) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 [illegible] [illegible]
(1008) 000000000000 000000000000 00000000

FILE INPUT DATA RECORDS MAX. READ ERROR SUMMARY INPUT RETRIES

DUMP OF TAPE GOUTG1

15-057A-01E

D-38139
C-21775

6/23/75

INPUT TAPE GOUTG1 ON MT6
DATA INPUT 07 NF 17 SR 1 1 3 SR 17 1 3

FILE 1 RECORD 1 LENGTH 28BYTES
(0) 160013001704 001400020602 000000001717 171712060002 00000000

FILE 1 RECORD 2 LENGTH 1024BYTES

(0)	010000000000	000003000000	000000000000	000000000000	160100000000	000015150703	161200001300	000017010000
(48)	100200001612	000013000000	050200000601	000013000000	000000000200	000000000400	050200000116	050607171101
(96)	030313101401	000000000000	000000000413	000001001717	160202001416	010000000000	000000001112	140312001011
(144)	101400131200	100217010612	111203100303	161104111517	121304110113	151100000000	010400030003	000300030103
(192)	130400000100	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000006010000
(240)	000100000400	000003000000	000000000000	000004060000	020000000704	050702000000	141315061104	170215121702
(288)	030217030303	030303031703	030303030200	171714100700	010000000312	140312000715	010000000000	000000000000
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000300	000000000000
(384)	010000000000	040001000000	020000000100	000002000000	000000000000	000000000000	000000000000	000000000000
(432)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(480)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(528)	000000000711	050404170205	101105040414	021100000000	000000000000	000000000000	000000000000	000000000000
(576)	000000000000	000000000000	000000000000	000010000000	060100001304	000000000000	000000001506	131500001100
(624)	000000001000	000002000000	010100000002	000000000000	161200001300	000005010000	060200001612	000013000000
(672)	050100000602	000000000000	000000000000	000000000000	000000000000	000000000000	000000001701	000405041011
(720)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(768)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(816)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(864)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(912)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(960)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1008)	000000000000	000000000000	00000000					

FILE 1 RECORD 3 LENGTH 1024BYTES

(0)	040211140402	111400000400	010000001403	100600000000	000000000000	000000000000	000000000000	000000000000
(48)	010000000000	000000000000	000000001504	170202101702	031214031200	071516120000	130000001701	000010020000
(96)	041302000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(144)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(192)	000000000000	000007070200	160502001304	020013020200	111601000115	000010010100	121400001502	020013060200
(240)	051001000614	010012100100	061301000303	010000040100	010301001512	000004040000	120300001207	000004040000
(288)	120000000601	000011070200	000000000601	000011121403	120010111014	001312001002	170106121112	031003031611
(336)	041115171213	041101131511	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(384)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(432)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(480)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(528)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000007110504
(576)	151016051011	050415170700	000000000000	000010000000	041300000100	171713000000	000000000217	170301131405
(624)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(672)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(720)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(768)	130400100100	000013000000	060100000003	140302001114	070405070200	171701040000	141007000001	001301000005
(816)	010010030400	020317070300	040011010105	000001000007	000000000000	000000000000	000000000000	000000000000
(864)	000000000000	000004170503	000011140200	000001010507	000000000000	000001000000	020017170001	001305020701
(912)	041504070204	121604020701	171706050400	040604000406	040004060400	040604000406	040500060600	050607040112
(960)	140005160000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000001000000
(1008)	000000000501	001000030000	00000000					

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
1	18	18	1024	0	0	0	0	0	0

FILE 17 RECORD 1 LENGTH 28BYTES
(0) 160013000504 011400020602 000000001717 171712060002 00000000

FILE 17 RECORD 2 LENGTH 1024BYTES

```
(      0)  010000000100  000003000000  001301001013  000000000000  160300000000  000004041305  001300001700  000005000000
(     48)  120000000013  000017000000  060100000402  000010000000  000000000200  000000000400  000000001500  050602141101
(     96)  051512100400  000000000000  000000000600  000006000000  101116170503  161700000000  000000001112  140312001011
(    144)  101400131200  100217010612  111203100303  161104111517  121304110113  151100000000  010400030003  010303030403
(    192)  130400000610  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000006010000
(    240)  170000000400  000002000000  010000001702  000004100300  020000001606  050602000000  041115051301  000303100003
(    288)  000000040000  000005000004  101316010400  020313150700  010300000312  140312000715  010000000000  000000000000
(    336)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000300  000000000000
(    384)  030400000000  040001000000  020000000100  000002000000  000000000000  000000000000  000000000000  000000000000
(    432)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(    480)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(    528)  000000001111  050406140217  131105041107  170300000000  000000000000  000000000000  000000000000  000000000000
(    576)  000000000000  000000000000  000000000000  000010000000  060100001304  000000000000  000000001506  131500001201
(    624)  000000000401  000006000000  040300001210  000001000000  001300001600  000003010000  070000000013  000016000000
(    672)  030100000700  000017150000  020000000000  000000000000  000000000000  000000000000  000000001601  000410121416
(    720)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(    768)  000000000000  000000000000  000000000610  000000000000  000000000000  000000000000  000000000000  000000000000
(    816)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(    864)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(    912)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(    960)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(   1008)  000000000000  000000000000  00000000
```

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FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
17	2	2	1024	0	0	0	0	0	0

****** EOF WHILE DUMPING RECORDS FOR REQUEST SR=17=1=3X

EOJ DUMP STOPPED AFTER FILE 17 # OF PERMANENT READ ERRORS 0

START TIME 10/24/81 10:32:50 STOP TIME 10/24/81 10:34:03

FORM 1413

```
$$
$ASS IN MT5
$EXEC TPDUPC BS
```

DUMP OF TAPE GOUT66

INPUT TAPE GOUT66 ON MT6
DATA INPUT 07 NF 240 SR 1 1 3 SR 240 1 3

75-097A-01E

09/13/77

D-38145
C-21781

FILE 1 RECORD 1 LENGTH 28BYTES
(0) 170513000215 051600020602 000000001717 171703030402 00000000

FILE 1 RECORD 2 LENGTH 1024BYTES
(0) 010000000100 000003000000 040400000404 000000000000 000000000401 000014050011 000001001700 000010010000
(48) 050300000000 010000010000 130100000501 000010000000 000000000100 000010070200 050100000207 170104120517
(96) 051006031401 171707061517 170617171506 151707071717 020107031717 151700000000 000000001112 140312001011
(144) 101400131200 100217010612 111203100303 161104111517 121304110113 151100000000 010402030103 060300030403
(192) 150400000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000006010000
(240) 170502001200 000003000000 000000001500 000004010000 030000001714 071003000000 100505100400 020406040204
(288) 001201040000 000001120104 161207041000 150710070200 010000000302 150312000715 010000000000 000000000000
(336) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000100 000000000000 000000000000
(384) 040604051007 020001000000 010000000100 000001000000 000000000000 000000000000 000000000000 000000000000
(432) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(480) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(528) 000000000315 050410160004 041505041316 030100000000 000000000000 000000000000 000000000000 000000000000
(576) 000000000000 000000000000 000000000000 000010000000 000010001504 000000000000 000000001506 131500001001
(624) 000000001301 000006000000 000300001305 000005000000 000001001700 000004010000 020300000000 010000010000
(672) 130100000000 000001010000 020000000000 000000000000 000000000000 000000000000 000000000002 000404041507
(720) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(768) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(816) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(864) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(912) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(960) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(1008) 000000000000 000000000000 00000000

FILE 1 RECORD 3 LENGTH 1024BYTES
(0) 040211140402 111410070200 010000000000 100600000000 000000000000 000000000000 000000000000 000000000000
(48) 010000000706 151717061717 150000000400 020406040204 030215031200 071500000100 170000001001 000005030000
(96) 061302000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(144) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(192) 000000000000 000016000300 141702000216 020010120200 000602000107 000002100000 050700000102 020013100200
(240) 030101001607 010016010100 000701001610 000007120000 061100000000 000000000000 000000000000 000000000000
(288) 000000000000 000002120200 000000000601 000011121403 120010111014 001312001002 170106121112 031003031611
(336) 041115171213 041101131511 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(384) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(432) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(480) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(528) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000003150504
(576) 101600040415 050413160301 000000000000 000010000000 150615170707 171710000000 010100000302 000410020413
(624) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(672) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(720) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(768) 101200100406 040510000000 060100000003 140307031114 171407101000 150701040010 100702001705 021301000405
(816) 160210031000 130401000010 040216120607 020004001613 061401000400 161302021601 040016131600 030004001613
(864) 060414030000 000007051005 000011140300 000016140710 000000000000 000001000000 100015071705 021312060107
(912) 120601071311 060104051005 120601070400 040104000401 040004010000 000000000000 110500000300 140701000000
(960) 140207030001 000015050415 030000000003 100505140504 071217171400 140701030500 050403000000 000001000000
(1008) 000000000501 001011020000 06040000

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
1	16	16	1024	0	0	0	0	0	0

FILE 240 RECORD 1 LENGTH 28BYTES
(0) 040613001304 061600020602 000000001717 171703030402 00000000

FILE 240 RECORD 2 LENGTH 1024BYTES

06/24/78

```
(     0)  010000000100  000003000000  050000000500  000000000000  071400040600  000017000515  171200001200  000005010000
(    48)  050000001712  000012000000  160200000603  000010000000  000000000100  000017070100  050000001702  001000050401
(    96)  020514000516  171714110500  061217171111  050014121717  030316140312  161700000000  000000001112  140312001011
(   144)  101400131200  100217010612  111203100303  161104111517  121304110113  151100000000  010402030603  060303030503
(   192)  160400000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000006010000
(   240)  050201000701  000003000000  000000001500  000004010000  030000001013  150703000000  120314070201  030412030304
(   288)  001201040000  000001120104  161207041000  150717070100  010000000302  150312000715  010000000000  000000000000
(   336)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000300  000000000000  000000000000
(   384)  130010061707  010001000000  010000000100  000001000000  000000000000  000000000000  000000000000  000000000000
(   432)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(   480)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(   528)  000000000615  050404110012  071505041104  000200000000  000000000000  000000000000  000000000000  000000000000
(   576)  000000000000  000000000000  000000000000  000010000000  160200001604  000000000000  000000001506  131500100602
(   624)  000000001401  000011000000  140400000611  000007010000  171200001100  000006020000  060000001712  000011000000
(   672)  060200000600  000003000000  020000000000  000000000000  000000000000  000000000000  000000001401  000412041014
(   720)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(   768)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(   816)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(   864)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(   912)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(   960)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(  1008)  000000000000  000000000000  00000000

FILE    240  RECORD      3  LENGTH    1024BYTES
(     0)  040211140402  111417070100  010000000000  100600000000  000000000000  000000000000  000000000000  000000000000
(    48)  010000001411  050006121717  150000000201  030412030304  030215031200  071517120000  120000000501  000005000000
(    96)  061302000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(   144)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(   192)  000000000000  000002020300  010003001316  020013130200  051502001614  000010160000  041500001401  020006060200
(   240)  040501000311  010016040100  060701000616  000006160000  121500001502  000000000000  000000000000  000000000000
(   288)  000000000000  000017100200  000000000601  000011121403  120010111014  001312001002  170106121112  031003031611
(   336)  041115171213  041101131511  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(   384)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(   432)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(   480)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(   528)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000006150504
(   576)  041100120715  050411040002  000000000000  000010000000  111105001412  171710000000  030000001514  170307171310
(   624)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(   672)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(   720)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(   768)  100701101300  100603020000  060100001312  150307031114  101315071000  150701040010  170701000502  011310001304
(   816)  170114031000  130401000010  040216120607  020004001613  061401000400  161302021601  040016131600  030004001613
(   864)  060414030000  000010170311  000011140300  000007131507  000000000000  000001000000  100015070502  011312060107
(   912)  120601071311  060104051005  120601070400  040104000401  040004011317  171700000000  050500000300  140702000000
(   960)  140207030001  000007170716  030000000403  100506130606  050500001100  061401030500  171204000000  000001000000
(  1008)  000000000501  001004010200  12060107

        FILE    INPUT     DATA RECORDS     MAX.          READ ERROR SUMMARY          INPUT RETRIES
                RECS.       INPUT          SIZE      PERM  ZERO B   SHORT  UNDEF.  #RECS.  TOTAL#
         240      17         17           1024         0      0       0      0       0       0

EOJ        DUMP STOPPED AFTER FILE   240        # OF PERMANENT READ ERRORS  0

START TIME 10/24/81  12:43:37        STOP TIME 10/24/81  12:46:25
```

FORM 1413

```
$$
$ASS IN MT5
$EXEC TPDUPC BS
```

DUMP OF TAPE GOUT-1

75-057A-01F

D-38146
C-21867

6/23/75

DAY 174

INPUT TAPE GOUT-1 ON MT5
DATA INPUT 07 NF 500 SR 1 1 2 SR 500 1 2

FILE	1 RECORD	1 LENGTH	2048YTES					
(0)	160013000205	001400020602	000000001717	171712070002	00000000			

FILE	1 RECORD	2 LENGTH	1024BYTES					
(0)	010000000000	000003000000	050000001403	020000000000	000200000000	000071611103	161200001603	000015012000
(48)	020300001612	000016000000	050200001100	000012000000	000000000500	000010160300	053200001716	000611171101
(96)	110313101501	000000000000	000000001203	000003161717	031201000161	020000000000	000001001112	140312001111
(144)	101400131200	100217010612	111203100303	161104111517	121304110113	151100000000	010400030003	000305030403
(192)	130400000200	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000004000000
(240)	030000000400	000003000000	000000000000	000004060000	050000001506	120503000000	150612031001	120401011204
(288)	031216031200	071517121603	100214050200	001101160300	000000000000	000000000000	050000000000	000000000000
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000300	000000000000
(384)	040000001016	030001000000	010000000100	000005000000	000000000000	000000000000	000000000000	000000000000
(432)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(480)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(528)	000000001516	050417151301	151605041715	130100000000	000000000000	000000000000	000000000000	000000000000
(576)	000000000000	000000000000	000000000000	000010000000	040000001304	000000000000	000000001506	131500001320
(624)	000000001400	000003000000	030100000002	000000000000	161200001600	000003020000	020100001612	000016000000
(672)	030200000201	000014030000	000003000000	000003000000	000000000000	000000000000	000001071701	000401011613
(720)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(768)	000000000000	000000000000	000000000200	000000000000	000070000000	000000000000	000000000000	000000000000
(816)	000000000000	000000000000	000001000000	000000000000	000300000000	000000000000	000000000000	000000000000
(864)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(912)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(960)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1008)	000000000000	000000000000	00000000					

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES %RECS.	TOTAL
1	34	34	1024	0	0	0	0	0	0

DAY 99

04/8/76

FILE	500 RECORD	1 LENGTH	2048YTES					
(0)	060313001201	011400020602	000000001717	171712070002	00000000			

FILE	500 RECORD	2 LENGTH	1024BYTES					
(0)	010000000100	000003000000	000000000000	000000000000	111007120201	000003170015	030300001000	000007020000
(48)	000300000306	000013000000	130200001001	000013000000	000000000100	000004171[illegible]	[illegible]	[illegible]
(96)	100200020504	171700003000	000000000600	000013000000	041312002004	151700000000	000001001112	140312001111
(144)	101400131200	100217010612	111203100303	161104111517	121304110113	151100000000	010400030003	000305030403
(192)	140400000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(240)	121700000400	000003000000	000003001500	000004010000	030000000612	020503000000	000000000000	000004020000
(288)	001000040000	000001100004	161207040400	040604170100	000000000000	000000000000	120200501211	076402115704
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	010000000000	000000000000
(384)	060407020417	010001000000	010000000100	000001000000	000000000000	000000000000	000000000000	000000000000
(432)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(480)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(528)	000000000516	050407110600	051605040711	060000000000	000000000000	000000000000	000000000000	000000000000
(576)	000000000000	000000000000	000000000000	000010000000	140100001404	000000000000	000001001506	131500001320
(624)	000000000700	000002000000	130000000401	000007000000	035600000700	000014020000	020700003006	000007000000
(672)	140200000702	000000000000	020000000100	000002130504	000000020000	000000000000	000001001501	001413100406
(720)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(768)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(816)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(864)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(912)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(960)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1008)	000000000000	000000000000	00000000					

FILE	INPUT	DATA RECORDS	MAX.	READ ERROR SUMMARY	INPUT RETRIES

DUMP OF TAPE GOUT5

75-057A-01F

D-38150
C-21871

INPUT TAPE GOUT5 ON MT6
DATA INPUT 07 NF 161 FL 1 2 0 SR 161 1 2

05/11/78
DAY 131

FILE 1 RECORD 1 LENGTH 2048YTES

(0)	030613001711	111500020602	000000001717	171703030402	00000000		

FILE 1 RECORD 2 LENGTH 1024BYTES

(0)	010000000000	000003000300	161110001510	010000000000	060316030400	000001170700	031401000501
(48)	120100000310	000006010000	010300000603	000012000000	000000000400	000010160300	161700001714
(96)	050014000414	000002111716	170013000506	151717101417	000002171514	151700000000	000000001112
(144)	101400131200	100217010612	111203100303	161104111517	121304110113	151100000000	010402000503
(192)	160400000000	000000000000	000003000000	000000000000	000000000000	000000000000	000000000000
(240)	050400001200	000003000000	000000001500	000004010000	010000000603	060701000000	060306071415
(288)	001000040000	000001100004	161207040400	040610160300	000000000000	000000000000	000000000000
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(384)	150403061016	030001000000	010000000100	000004000000	000000000000	000000000000	000000000000
(432)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(480)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(528)	000000000104	060405000006	010406040500	000600000000	000000000000	000000000000	000000000000
(576)	000000000000	000000000000	000000000000	000004000000	140100001604	000010001500	000000001506
(624)	010000000703	000001010000	051100000602	010016000000	000000000000	000000000000	000000001000
(672)	000000000000	000015030000	020000000100	000000000000	000000000603	011700000000	000401010501
(720)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(768)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(816)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(864)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(912)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(960)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1008)	000000000000	000000000000	00000000				

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO	SHORT	UNDEF.	INPUT RETRIES AREAS.	TOTALS
1	42	42	1024	0	0	0	0	0	0

DAY 261 09/18/78

FILE 161 RECORD 1 LENGTH 2YBYTES

(0)	070613000502	061600020602	000000001717	171703030402	00000000		

FILE 161 RECORD 2 LENGTH 1024BYTES

(0)	010000000100	000003000000	010000000100	000000000000	101505041400	000002171505	050001000503
(48)	170200000500	010007000000	050000000603	000013000001	000000002200	000010160300	040101001614
(96)	071712010304	000003061417	111517171206	141715151717	150417041201	151700000000	000000001112
(144)	101400131200	100217010612	111203100303	161104111517	121304110113	151100000000	010402000503
(192)	160400000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(240)	060400001200	000003000000	000000001500	000004010000	030000000112	100503000000	011210050217
(288)	001000040000	000001100004	161207040400	040610160300	000000000000	000000000000	000000000000
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(384)	131303071016	030001000000	010000000300	000004000000	000000000000	000000000000	000000000000
(432)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(480)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(528)	000000000316	050417060700	031605041706	070000000000	000000000000	000000000000	000000000000
(576)	000000000000	000000000000	000000000000	060010000000	140100001604	000010001500	000000001506
(624)	000000001500	000004000000	160100001203	000005010000	050301000600	000000703000	120100000500
(672)	070300001201	000001000000	020000000100	000000000000	000000000000	000000000000	000000001501
(720)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(768)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(816)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(864)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(912)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(960)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1008)	000000000000	000000000000	00000000				

FILE INPUT DATA RECORDS MAX. READ ERROR SUMMARY INPUT RETRIES

DUMP OF TAPE GOUT-1

75-057A-01G

D-38151
C-21873

INPUT TAPE GOUT-1 ON MT6
DATA INPUT 07 NF 201 SR 1 1 2 SR 201 1 2

FILE 1 RECORD 1 LENGTH 288YTES
(0) 160013000214 151400020602 000000001717 171706100302 00000000

FILE 1 RECORD 2 LENGTH 1022BYTES

DAY179 6/28/75

(0)	010000010000	000300000000	000000150700	000000000007	060000000000	000612271003	130000017
(48)	000003130000	070000000703	000013030000	100000000009	000001030000	000100000601	000000173306
(96)	121001000000	000000000000	000004000000	060000001310	010017100100	000000123000	000001112143
(144)	001312001002	170106121112	031003031611	041115171213	041101131511	000000000104	000300031063
(192)	000006060000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(240)	000004000000	020000000100	000000020000	120000000200	000001020107	020000000102	010700101702
(288)	000400000000	011000041612	070404000406	010000000000	000000000000	000000001002	000000000000
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(384)	010001000000	000100000200	000001000000	010300000000	000000000000	000000000000	000003000000
(432)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(480)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(528)	000010110504	121502001011	050412150200	000000000000	000000000000	000000000000	000000000000
(576)	000000000000	000000000000	000000000000	100000001400	000013040000	000000000000	000015061315
(624)	000017000000	050000000502	000007040000	030000000313	000007000000	060200001302	000003130000
(672)	000013020000	100300000000	000001000000	000000000000	000000000000	000000000000	000016010004
(720)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(768)	000000000000	000000000000	000006060000	000000000000	000000000000	000000000000	000000000000
(816)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(864)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(912)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(960)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1008)	000000000000	000000000000	0000				

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES WRECS.	TOTAL
1	109	109	1024	0	0	0	0	0	0

FILE 201 RECORD 1 LENGTH 288YTES
(0) 060313001401 011400020602 000000001717 171706100302 00000000

FILE 201 RECORD 2 LENGTH 1024BYTES

DAY99 4/8/76

(0)	010000000100	000003000000	000000000000	000000000000	171007120201	000015170716	030600000201
(48)	050300000306	000002010000	110300001103	000010000000	000000000100	000006110000	100000001016
(96)	040200021317	161703141717	061217171114	171716121717	141607170517	020000000000	000000001112
(144)	101400131200	100217010612	111203100303	161104111517	121304110113	151100000000	010430030303
(192)	140400000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(240)	030200000401	000003000000	000000001500	000004010000	030000001403	110503000000	150707050216
(288)	000401040000	000002040104	140517101000	130406110000	030000000517	151317100214	000000000000
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(384)	100407020611	000001000000	010000000100	000001000000	000000000000	000000000000	000000000000
(432)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(480)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(528)	000000000216	050416120315	031605041716	130600000000	000000000000	000000000000	000000000000
(576)	000000000000	000000000000	000000000000	000010000000	130100001404	000000000000	000000031506
(624)	000000000500	000002000000	120000000001	000001000000	030600000201	000005030000	030100000306
(672)	050300000301	000000000000	020000000000	000001000000	000000000000	000000000000	000000000501
(720)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(768)	000000000000	000000000300	000000000000	000000000000	000000000000	000000000000	000000000000
(816)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(864)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(912)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(960)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1008)	000000000000	000000000000	00000000				

FILE INPUT DATA RECORDS MAX. READ ERROR SUMMARY INPUT RETRIES

$EXEC TPDUMP BS

DUMP OF TAPE GOUT-4

75-057A-01G

D-38154
C-21876
4/28/78

INPUT TAPE GOUT-4 ON MT6
DATA INPUT 07 NF 3 SR 1 1 2 SR 3 1 2

DAY 118

FILE	1 RECORD	1 LENGTH	28BYTES					
(0)	020613000716	101700020602	000000001717	171703030402	00000000			

FILE	1 RECORD	2 LENGTH	1024BYTES					
(0)	010000000100	000003000000	000000000000	000000000000	120615030300	000013151002	060700001100	000004000000
(48)	050300000607	000011000000	040000000603	000010000000	000000000100	000000010700	070400000615	040716061300
(96)	120100011712	000013170200	000204001417	020005020400	040314000506	020000000000	000000001112	140312001011
(144)	101400131200	100217010612	111203100303	161104111517	121304110113	151100000000	010400030303	010307030703
(192)	160400000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000011000000
(240)	100001000500	000002000000	070000000000	000004060000	030000000603	140303000000	060314031016	110410161104
(288)	000001040715	031201000104	161207040501	111401000000	000000000000	000000000000	010000000001	070000000000
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000200	000000000000
(384)	010601060001	070001000000	010000000100	000001000000	000000000000	000000000000	000000000000	000000000000
(432)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(480)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(528)	000000001406	050415060310	140605041506	031000000000	000000000000	000000000000	000000000000	000000000000
(576)	000000000000	000000000000	000000000000	000010000000	010200001604	000000000000	000000001506	131500100000
(624)	000000000200	000001000000	010000000000	000000000000	060700001100	000002000000	170100000607	000011000000
(672)	020000001701	000000000000	020000000100	000000120704	000002060000	000000000000	000000001201	000407120407
(720)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(768)	000000000000	000000000000	000000001106	140000000000	000000000000	000000000000	000000000000	000000000000
(816)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(864)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(912)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(960)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1008)	000000000000	000000000000	00000000					

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO E	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
1	17	17	1024	0	0	0	0	0	0

7/22/78

DAY 203

FILE	3 RECORD	1 LENGTH	28BYTES					
(0)	050613000103	111700020602	000000001717	171703030402	00000000			

FILE	3 RECORD	2 LENGTH	1024BYTES					
(0)	010000000100	000003000000	000000000000	000000000000	120602041000	000010051511	131400000200	000003030000
(48)	060300001314	000002000000	030300000703	000010000000	000000000100	000006140500	100000001113	101001100701
(96)	130315001117	171700150100	040003000115	010014000300	111107171714	020000000000	000000001112	140312001011
(144)	101400131200	100217010612	111203100303	161104111517	121304110113	151100000000	010402030703	110304030503
(192)	160400000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000011000000
(240)	100001000500	000002000000	070000000000	000004060000	030000000414	150303000000	041415031613	110416131104
(288)	000001040715	031201000104	161207040501	111401000000	000000000000	000000000000	010000000614	050000000000
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000200	000000000000
(384)	070215060614	050001000000	010000000100	000001000000	000000000000	000000000000	000000000000	000000000000
(432)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(480)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(528)	000000001306	050410121617	130605041012	161700000000	000000000000	000000000000	000000000000	000000000000
(576)	000000000000	000000000000	000000000000	000010000000	010200001604	000000000000	000000001506	131500100000
(624)	000000000200	000001000000	010000000000	000000000000	131400000200	000001030000	040300001314	000002000000
(672)	010300000403	000000000000	020000000100	000015030704	000014100000	000000000000	000000001001	000411131704
(720)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(768)	000000000000	000000000000	000000001102	150600000000	000000000000	000000000000	000000000000	000000000000
(816)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(864)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(912)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(960)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1008)	000000000000	000000000000	00000000					

FILE	INPUT	DATA RECORDS	MAX.	READ ERROR SUMMARY	INPUT RETRIES

DUMP OF TAPE GOUTG8

75-057A-01H

D-38155
C-21782

INPUT TAPE GOUTG8 ON MT6
DATA INPUT 07 FL 1 5 STOP

FILE 1 RECORD 1 LENGTH 28BYTES

(0)	140206021704	010114170201	0014000101311	000005070402	00000000

1 129 5

FILE 1 RECORD 2 LENGTH 1024BYTES

(0)	010000000110	000005000000	061706040500	070403070400	020300000100	000013071417	071516170100	000012010000
(48)	140201001006	010006010000	130000000101	000000010000	030000000203	000004030000	010000000200	000001000000
(96)	110000000401	000016110002	101717171403	000005150200	060100000301	000001000000	021000000102	140106170604
(144)	050007040207	040002030000	010000001307	141707151617	010000000401	000014020100	100601000701	000015020000
(192)	010100000001	000003000000	020300000303	000003000000	010000000100	000011000000	040100001401	130003000000
(240)	020400001006	010007010000	110200000100	000003100000	020214010617	060405000704	010704000203	000001000000
(288)	130714170715	161701000000	040100001402	010011060100	010000000401	000001010000	000100000300	000002030000
(336)	030300000300	000001000000	010000001100	000004010000	150113000300	000002040000	110601000100	000000010000
(384)	010000000410	000003021401	061706040500	070400070400	020300000100	000013071417	071516170100	000004010000
(432)	140201001106	010002000000	100300000101	000000010000	030000000203	000003030000	030000000100	000001000000
(480)	110000000401	000016011300	030000000104	000011060100	020000000403	000001000000	051000000402	140106170604
(528)	050007041706	040002030000	010000001307	141707151617	010000000401	000014020100	110601000400	000017010000
(576)	010100000001	000003000000	020300000303	000003000000	010000000100	000011000000	040100001701	130002000000
(624)	010400001106	010004000000	140100000100	000006100000	050214010617	060405000704	150604000203	000001000000
(672)	130714170715	161701000000	040100001402	010011060100	060000000700	000001010000	000100000300	000002030000
(720)	030300000300	000001000000	010000001100	000004010000	000213000300	000001040000	110601000600	000003000000
(768)	010000000710	000007071401	070714031707	140303020400	130000000100	000001000400	000000000100	000004010000
(816)	001101001506	010012000000	120300000101	000000010000	170000001300	000000010000	020000000100	000001000000
(864)	110000000401	000017051300	000200001503	000015060100	120000001101	000001000000	101000001007	140107071403
(912)	170714030302	040013000000	010000000100	040000000000	010000000001	000000110100	150601001300	000017000000
(960)	010100000100	000017000000	130000001400	000003000000	010000000100	000011000000	040100001705	130001030000
(1008)	150300001506	010012000000	11010000					

FILE 1 RECORD 3 LENGTH 1024BYTES

(0)	040211140402	111400020000	101100000701	100600000000	000000000000	000000000000	000000000000	000000000000
(48)	010000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(96)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(144)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(192)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(240)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(288)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(384)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(432)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(480)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(528)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(576)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(624)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(672)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(720)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(768)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(816)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(864)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(912)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(960)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1008)	000000000000	000000000000	00000000					

FILE 1 RECORD 4 LENGTH 1024BYTES

(0)	010000000100	000017030001	100714030010	140314020400	130000000100	000010121517	051317170100	000004010000
(48)	001101001700	010014000000	120100000101	000001020000	170000001300	000000010000	030000000100	000001000000
(96)	110000000401	000006150500	000000001303	000017000100	140000001101	000001000000	020000000004	000110071403
(144)	001014031502	040013000000	010000001012	151705131717	010000000301	000000110100	170001001400	000013030000
(192)	010100000102	000017000000	130000001700	000003000000	010000000100	000011000000	040100000615	050001020000
(240)	130300001700	010014000000	110100000100	000003000000	050400011606	140306071403	170204001300	000001000000
(288)	101215170513	171701000000	040100000011	010017000100	010100001400	000001010000	010200001700	000013000000

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(    336)   170000000300  000001000000  010000001100  000004010000  111505000000  000013030000  170001000101  000014000000
(    384)   010000000400  000006040001  160614030607  140317020400  130000000100  000010121517  051317170100  000004010000
(    432)   001101001700  010001010000  140100000101  000000010000  170000001300  000000010000  020000000100  000001000000
(    480)   110000000401  000011150500  170000001303  000017000100  010100001400  000001000000  050000000510  000116060603
(    528)   050706030206  040013000000  010000000603  161712100400  010000000401  000014020100  010101001400  000014000000
(    576)   010100000001  000017000000  130000001400  000003000000  010000000100  000011000000  040100000417  050000000000
(    624)   140300000101  010014000000  130000000100  000006000000  061000011606  060305070603  020604001300  000001000000
(    672)   060316171210  040001000000  040100001402  010001010100  140000001502  000001010000  000100001700  000013000000
(    720)   140000000300  000001000000  010000001100  000004010000  041705000102  000014030000  010101001400  000013000000
(    768)   010000000700  000011100001  160606030507  060304060400  130000000100  000006031617  121004000100  000004010000
(    816)   140201000101  010015000000  130300000101  000000010000  170000001300  000014000000  030000000100  000001000000
(    864)   110000000401  000005170500  130000001403  000001010100  150000001702  000001000000  100000001210  000116060603
(    912)   050706030406  040013000000  010000000603  161712100400  010000000401  000014020100  010101001600  000014010000
(    960)   010100000001  000017000000  130000001400  000003000000  010000000100  000011000000  040100000517  050010020000
(   1008)   140300000101  010015000000  17020000

FILE       1  RECORD       5  LENGTH     1024BYTES
(      0)   010000001100  000014100001  160606030507  060306060400  130000000100  000006031617  121004000200  000004010000
(     48)   140201000101  010017000000  150100000101  000000010000  170000001300  000014000000  020000000100  000001000000
(     96)   110000000401  000006170500  050000001403  000001010100  170000000701  000001000000  120000001510  000116060603
(    144)   050706031006  040013000000  010000000603  161712100400  010000000401  000014020100  010101000001  000013030000
(    192)   010100000001  000017000000  130000001400  000003000000  010000000100  000011000000  040100000717  050000000000
(    240)   140300000101  010000010000  120300000100  000013000000  161000011606  060305070603  100604001300  000001000000
(    288)   060316171210  040001000000  040100001402  010001010100  010100001700  000001010000  000100001700  000013000000
(    336)   140000000300  000001000000  010000001100  000004010000  071705000001  000014030000  010101000001  000012030000
(    384)   010000001400  000003130001  070714031707  140314060400  130000000100  000006031617  121004000100  000004010000
(    432)   140201000201  010011000000  160000000101  000000010000  170000001300  000016000000  020000000100  000001000000
(    480)   110000000401  000001000600  030100001403  000002010100  100000000603  000001000000  150000000413  000107071403
(    528)   170714031406  040013000000  010000000603  161712100400  010000000401  000014020100  020101001100  000015010000
(    576)   010100000001  000017000000  130000001400  000002000000  010000000100  000011000000  040100000100  060002020000
(    624)   140300000201  010010000000  060300000100  000016000000  051401010607  140315071403  121504001700  000001000000
(    672)   171414171307  171701000000  140200000417  010011010100  050000000100  000001010000  130000001200  000017000000
(    720)   120300000300  000001000000  010000001100  000004010000  100606000300  000015030000  110101000400  000011030000
(    768)   010000001700  000006140101  060714031507  140313150400  170000000100  000017141417  130717170100  000015020000
(    816)   041701001101  010006000000  030200000101  000013000000  120000001700  000013030000  030000000100  000001000000
(    864)   110000000401  000011060600  010000001503  000011010100  060000000102  000001000000  000100000416  010106071403
(    912)   160714031217  040013000000  010000001711  141701141717  010000000401  000000110100  110101000301  000004010000
(    960)   010100001300  000017000000  130000000001  000003000000  010000000100  000011000000  040100000107  060002000000
(   1008)   150300001101  010003010000  01010000

EOJ     STOP REQUESTED IN FILE     1

EOJ          DUMP STOPPED AFTER FILE    1          # OF PERMANENT READ ERRORS  0

START TIME 10/24/81  12:57:40          STOP TIME 10/24/81  12:58:04

$$
$ASS IN MT5
$EXEC TPDUPC 65
```

DUMP OF TAPE GOUTG9

75-057A-01I

D-38156
C-21783

INPUT TAPE GOUTG9 ON MT6
DATA INPUT 07 FL 1 3 STOP

FILE 1 RECORD 1 LENGTH 28BYTES
(0) 010411010010 041514031101 001400101311 000014070402 00000000

FILE 1 RECORD 2 LENGTH 1024BYTES
(0) 000703040000 000005000000 141414140207 030400000000 030703041111 111100000000 000000000000 000000000000
(48) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(96) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(144) 000000000000 000000000000 000000000110 030403030303 150703041111 111112070304 060606060607 030406060606
(192) 040703040000 000002070304 000000000007 030414141414 000703040000 000000070304 000000000007 030400000000
(240) 000703040000 000000070304 000000000007 030406060606 000703040606 060600070304 060606060007 030406060606
(288) 000703040606 060600070304 000000000007 030400000000 170603041111 111100070304 000000000007 030406060606
(336) 010703040303 030302070304 141414140407 030414141414 070703040303 030312070304 141414141707 030403030303
(384) 021003040303 030305100304 030303031010 030400000000 121003040000 000012100304 141414141210 030400000000
(432) 071003041111 111104100304 111111110110 030411111111 160703040606 060611070304 111111110607 030406060606
(480) 030703041111 111102070304 000000000007 030414141414 000703040000 000017060304 111111111706 030411111111
(528) 000703040000 000000070304 141414140107 030411111111 020703040000 000002070304 141414140207 030414141414
(576) 020703040606 060602070304 060606060207 030400000000 010703040303 030300070304 060606060007 030400000000
(624) 170603041111 111117060304 111111110007 030400000000 000703041414 141401070304 111111110307 030403030303
(672) 050703040303 030307070304 030303031107 030411111111 130703040303 030314070304 141414141507 030403030303
(720) 140703041414 141413070304 111111111107 030411111111 070703040303 030305070304 030303030307 030403030303
(768) 010703041111 111100070304 060606060007 030400000000 170603041111 111100070304 000000000007 030414141414
(816) 020703040000 000004070304 000000000607 030400000000 100703040606 060612070304 060606061407 030414141414
(864) 160703040606 060616070304 141414141607 030400000000 140703040606 060612070304 060606061007 030400000000
(912) 060703040000 000004070304 000000000207 030406060606 010703040303 030300070304 060606060007 030400000000
(960) 000703040000 000000070304 000000000007 030406060606 010703040303 030301070304 111111110207 030406060606
(1008) 020703040606 060602070304 14141414

FILE 1 RECORD 3 LENGTH 1024BYTES
(0) 040211140402 111404110300 010000001401 100700000000 000000000000 000000000000 000000000000 000000000000
(48) 010000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(96) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(144) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(192) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(240) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(288) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(336) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(384) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(432) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(480) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(528) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(576) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(624) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(672) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(720) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(768) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(816) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(864) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(912) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(960) 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
(1008) 000000000000 000000000000 00000000

EOJ STOP REQUESTED IN FILE 1

EOJ DUMP STOPPED AFTER FILE 1 # OF PERMANENT READ ERRORS 0

START TIME 10/24/81 13:05:23 STOP TIME 10/24/81 13:05:44
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