719

PIONEER 10 72-012A-11D

PIONEER 11 73-019A-11E

15-MIN INTERPLANETARY CRUISE DATA, SFDU

REQ. AGENT	ACQ. AGENT
CMW	JFC

PIONEER 10

15-MIN INTERPLANETARY CRUISE DATA, SFDU

72-012A-11D

This data set consists of 5 magnetic tapes. The data tapes were written on 9-track, 6250 bpi, in the SFDU format, and can be read, with the VAX COPY command in VMS directory format. All file sizes are in VAX blocks = 512 bytes/block. Each tape is labeled and contains the volume description file, the formats file, the software file and the publications file. These are followed by the data files, each data file contains six months worth of data. The backup tapes are 3480 cartridges. The D and C numbers and time span are as follows:

D#	C#	DATA FILES	LABEL	TIME SPAN
D-089486	C-029439	05	P10K1A	01/01/72 - 06/30/74
D-089487	C-029440	09	P10K2A	07/01/74 - 12/31/78
D-089488	C-029441	09	P10K3A	01/01/79 - 06/30/83
D-089489	C-029442	11	P10K4A	07/01/83 - 12/31/88
D-089490	C-029443	20	P10K05	01/01/89 - 10/06/96

THE UNIVERSITY OF IOWA

17 OCTOBER 1996

Dr. Joseph H King
National Space Science Data Center
World Data Center A for Rockets
and Satellites
Goddard Space Flight Center
Mailstop 633.0
Greenbelt, MD 20771

Dear Joe:

Subject: Transmittal of University of Iowa Archival Data Tapes for Pioneer 10 and 11:

15 minute Average -- Interplanetary Cruise Data -- Trajectory Merged -- SFDU Format

One-Hour Average Interplanetary Cruise Data for Pioneer 10

24-Hour Average RTG and Temperature Corrected Trajectory Merged Interplanetary Cruise Data for Pioneer 10

The following University of Iowa/Geiger Tube Telescope data are being sent under separate cover:

Pioneer 10	LABEL	PERIOD	
Tape #5	NSSD_P10K_0005 72-012A-11D	89A through 96B	SFDU Format
replace Tape #5	One-Hour Averages Pioneer 10 Cruise 72-012A-11B	DOY 84 1988 to DOY 280 1996	Same as earlier submissions
Tape #1	24-Hour Averages RTG and Temperature Corrected with Trajectory 72-012A-11C	covering from launch through DOY 280 1996	Same as earlier submissions
Pioneer 11			
replace Tape #5	NSSD_P11K_0005 73-019A-11E	89B through 95A	SFDU Format

For the tapes in the SFDU format, A means first six months of calendar year and B means second six months of the calendar year.

Department of Physics and Astronomy 203 Van Allen Hall Iowa City, Iowa 52242-1479 319/335-1686 FAX 319/335-1753

All of the data in the SFDU format have been written on nine-track tapes at 6250 BPI using DEC FILES-11 (VMS 5.4) . Each tape is labeled and contains the updated volume description file, the formats file, the software file, and the publications file. These are followed by the indicated data files. The SFDU format is as specified and approved by the NSSDC.
(DOY 280 1996 for Pioneer 10 and DOY 24 1995 for Pioneer 11)

All of the other tapes have been written on nine-track tapes at 6250 BPI and are VAX compatible.

The one-hour average cruise data start where the last submission on 1 June 1988 left off and continue to the present.
(DOY 280 1996 for Pioneer 10)

The 24-Hour averages have been corrected for temperature and RTG background per Van Allen and Randall [1985]. These data have also been merged with selected trajectory data. These files have the same format as the one-hour cruise data but have twenty additional integer words added to the record length for the trajectory information. The format is the same as the previous submission and the time period is from launch through the present.
(DOY 280 1996 Pioneer 10)

Sincerely yours,

B. A. Randall

B. A. Randall
Co-Investigator
ARC/NASA Grant NAG2-571

cc: Dr. J. A. Van Allen/U. of Iowa
Dr. J. F. Cooper, NSSDC
Dr. L. E. Lasher, Code 244-14/ARC
Mr. Fred Wirth, Code 224-14/ARC
Mr. R. L. Brechwald/U. of Iowa

Pioneer 10 GTT

THE UNIVERSITY OF IOWA

14 April 1992

Dr. James Lauer Green
National Space Science Data Center
World Data Center A for Rockets
and Satellites
Goddard Space Flight Center
Greenbelt, MD 20771

Dear Jim:

Subject: Transmittal of University of Iowa Archival Data Tapes for Pioneer 10 and 11: 15 minute Average -- Interplanetary Cruise Data -- Trajectory Merged -- SFDU Format

The following University of Iowa/Geiger Tube Telescope data are being sent under seperate cover:

Pioneer 10	LABEL	PERIOD	New Label
Tape 1	NSSD_P10K_0001	72A through 74A	P1ØK1A
Tape 2	NSSD_P10K_0002	74B through 78B	P1ØK2A
Tape 3	NSSD_P10K_0003	79A through 83A	P1ØK3A
Tape 4	NSSD_P10K_0004	83B through 88B	P1ØK4A
Tape 5	NSSD_P10K_0005	89A through 91A	P1ØK5A
Pioneer 11			
Tape 1	NSSD_P11K_0001	73A through 75A	P11K1A
Tape 2	NSSD_P11K_0002	75B through 78B	P11K2A
Tape 3	NSSD_P11K_0003	79A through 82A	P11K3A
Tape 4	NSSD_P11K_0004	82B through 89A	P11K4A
Tape 5	NSSD_P11K_0005	89B through 91A	P11K5A

A means first six months of calendar year and B means second six months of the calendar year.

Iowa City, Iowa 52242 Department of Physics and Astronomy 319/335-1686

All of the data have been written on nine-track tapes at 6250 BPI using DEC FILES-11 (VMS 5.4) . Each tape is labeled and contains the volume description file, the formats file, the software file and the publications file. These are followed by the indicated data files.

All of the data tapes are in the SFDU format as specified and approved by the NSSDC.

The fifth tape in both cases, has room for more data and will be periodically updated.

Sincerely yours,

B. A. Randall

B. A. Randall
Co-Investigator
ARC/NASA Grant NAG2-571

cc: Dr. J. A. Van Allen/U. of Iowa
Dr. J. F. Cooper, NSSDC
Dr. L. E. Lasher, Code 244-14/ARC
Mr. R. O. Fimmel, Code 224-14/ARC
Mr. R. L. Brechwald/U. of Iowa

Tapes received, rewritten, and submitted to archive.
John F. Cooper
John F. Cooper
NSSDC / Hughes STX
1/4/93

Note 1: The Pioneer 10 and 11 GTT data tapes were written, and can be read, with the VAX COPY command in VMS directory format. All file sizes listed above are in VAX blocks = 512 bytes/block.

Note 2: The *.SFD (Standard Formatted Data Unit or SFDU document) files contain metadata describing the Pioneer spacecraft, GTT experiment, and dataset parameters in the VOLDESC.SFD file, the binary data file format in the FORMAT.SFD file, a sample FORTRAN code to read the binary data in the SOFTWARE.SFD file, and a list of publications in the PUBLICATION.SFD file. Only the VOLDESC.SFD file, which also lists names and time coverages of data files on the current tape volume, is changed for each new volume.

Note 3: All the GTT tapes orginally submitted by the experimenters were recopied by J. F. Cooper at NSSDC/Hughes STX with changes in the metadata file names and substitution of a new software file provided after the tape submission to NSSDC. No changes were made to the data file names or contents.

VAX/VMS Directory Listings for the Pioneer 10 GTT Dataset Tapes

P10K1A - PIONEER 10 GTT TAPE #1

VOLDESC.SFD;1	57
FORMAT.SFD;1	17
SOFTWARE.SFD;1	30
PUBLICATION.SFD;1	72
GTT_P10_72A.DAT;1	18903
GTT_P10_72B.DAT;1	29856
GTT_P10_73A.DAT;1	27532
GTT_P10_73B.DAT;1	28281
GTT_P10_74A.DAT;1	25432

Total of 9 files, 130180 blocks.

P10K2A - PIONEER 10 GTT TAPE #2

VOLDESC.SFD;1	58
FORMAT.SFD;1	17
SOFTWARE.SFD;1	30
PUBLICATION.SFD;1	72
PUBLICATION.SFD;1	72
SOFTWARE.SFD;1	30
GTT_P10_74B.DAT;1	26871
GTT_P10_75A.DAT;1	19144
GTT_P10_75B.DAT;1	17686
GTT_P10_76A.DAT;1	8047
GTT_P10_76B.DAT;1	10400
GTT_P10_77A.DAT;1	10090
GTT_P10_77B.DAT;1	10409
GTT_P10_78A.DAT;1	9268
GTT_P10_78B.DAT;1	9381

Total of 13 files, 121473 blocks.

P10K3A - PIONEER 10 GTT TAPE #3

VOLDESC.SFD;2	58
FORMAT.SFD;2	17
SOFTWARE.SFD;2	30
PUBLICATION.SFD;2	72
GTT_P10_79A.DAT;1	3687
GTT_P10_79B.DAT;1	18744
GTT_P10_80A.DAT;1	10508
GTT_P10_80B.DAT;1	14270
GTT_P10_81A.DAT;1	13897
GTT_P10_81B.DAT;1	15578
GTT_P10_82A.DAT;1	16623
GTT_P10_82B.DAT;1	15266
GTT_P10_83A.DAT;1	13888

Total of 13 files, 122638 blocks.

P10K4A - PIONEER 10 GTT TAPE #4

VOLDESC.SFD;1	50
FORMAT.SFD;2	17
SOFTWARE.SFD;2	30
PUBLICATION.SFD;2	72
GTT_P10_83B.DAT;1	17143
GTT_P10_84A.DAT;1	11517
GTT_P10_84B.DAT;1	8717
GTT_P10_85A.DAT;1	5926
GTT_P10_85B.DAT;1	8016
GTT_P10_86A.DAT;1	14600
GTT_P10_86B.DAT;1	9899
GTT_P10_87A.DAT;1	8771
GTT_P10_87B.DAT;1	9731
GTT_P10_88A.DAT;1	13376
GTT_P10_88B.DAT;1	10904

Total of 15 files, 118779 blocks.

P10K5A - PIONEER 10 GTT TAPE #5

VOLDESC.SFD;1	57
FORMAT.SFD;3	17
SOFTWARE.SFD;2	30
PUBLICATION.SFD;1	72
GTT_P10_89A.DAT;1	10982
GTT_P10_89B.DAT;1	8261
GTT_P10_90A.DAT;1	5471
GTT_P10_90B.DAT;1	6015
GTT_P10_91A.DAT;1	7597

Total of 9 files, 38502 blocks.

Pioneer 11 73-019A-11E
15-min. Interplanetary Cruise
Data

REQ. AGENT	ACQ. AGENT
CMW	JFC

PIONEER 11

15-MIN INTERPLANETARY CRUISE DATA, SFDU

73-019A-11E

This data set consists of 5 magnetic tapes. The data tapes were written on 9-track, 6250 bpi, in the SFDU format, and can be read, with the VAX COPY command in VMS directory format. All file sizes are in VAX blocks = 512 bytes/block. Each tape is labeled and contains the volume description file, the formats file, the software file and the publications file. These are followed by the data files, each data file contains six months worth of data. The backup tapes are 3480 cartridges. The D and C numbers and time span are as follows:

D#	C#	DATA FILES	LABEL	TIME SPAN
D-089491	C-029444	05	P11K1A	01/01/73 - 06/30/75
D-089492	C-029445	07	P11K2A	07/01/75 - 12/31/78
D-089493	C-029446	07	P11K3A	01/01/79 - 06/30/82
D-089494	C-029447	14	P11K4A	07/01/82 - 06/30/89
D0-89495	C-029448	16	P11K05	07/01/89 - 01/24/95

Pioneer 11 GTT

THE UNIVERSITY OF IOWA

14 April 1992

Dr. James Lauer Green
National Space Science Data Center
World Data Center A for Rockets
and Satellites
Goddard Space Flight Center
Greenbelt, MD 20771

Dear Jim:

Subject: Transmittal of University of Iowa Archival Data Tapes for Pioneer 10 and 11: 15 minute Average -- Interplanetary Cruise Data -- Trajectory Merged -- SFDU Format

The following University of Iowa/Geiger Tube Telescope data are being sent under seperate cover:

Pioneer 10	LABEL	PERIOD	New Label
Tape 1	NSSD_P10K_0001	72A through 74A	P1ØK1A
Tape 2	NSSD_P10K_0002	74B through 78B	P1ØK2A
Tape 3	NSSD_P10K_0003	79A through 83A	P1ØK3A
Tape 4	NSSD_P10K_0004	83B through 88B	P1ØK4A
Tape 5	NSSD_P10K_0005	89A through 91A	P1ØK5A
Pioneer 11			
Tape 1	NSSD_P11K_0001	73A through 75A	P11K1A
Tape 2	NSSD_P11K_0002	75B through 78B	P11K2A
Tape 3	NSSD_P11K_0003	79A through 82A	P11K3A
Tape 4	NSSD_P11K_0004	82B through 89A	P11K4A
Tape 5	NSSD_P11K_0005	89B through 91A	P11K5A

A means first six months of calendar year and B means second six months of the calendar year.

Iowa City, Iowa 52242 Department of Physics and Astronomy 319/335-1686

All of the data have been written on nine-track tapes at 6250 BPI using DEC FILES-11 (VMS 5.4) . Each tape is labeled and contains the volume description file, the formats file, the software file and the publications file. These are followed by the indicated data files.

All of the data tapes are in the SFDU format as specified and approved by the NSSDC.

The fifth tape in both cases, has room for more data and will be periodically updated.

Sincerely yours,

B. A. Randall

B. A. Randall
Co-Investigator
ARC/NASA Grant NAG2-571

cc: Dr. J. A. Van Allen/U. of Iowa
Dr. J. F. Cooper, NSSDC
Dr. L. E. Lasher, Code 244-14/ARC
Mr. R. O. Fimmel, Code 224-14/ARC
Mr. R. L. Brechwald/U. of Iowa

Tapes received, rewritten, and submitted to archive.

John F. Cooper

John F. Cooper
NSSDC / Hughes STX
1/4/93

VAX/VMS Directory Listings for the Pioneer 11 GTT Dataset Tapes

P11K1A - PIONEER 11 GTT TAPE #1

VOLDESC.SFD;1	55
FORMAT.SFD;1	18
SOFTWARE.SFD;2	30
PUBLICATION.SFD;1	72
GTT_P11_73A.DAT;1	14299
GTT_P11_73B.DAT;1	30137
GTT_P11_74A.DAT;1	28929
GTT_P11_74B.DAT;1	30833
GTT_P11_75A.DAT;1	24901
GTT_P11_REG.SFD;2	173

Total of 10 files, 129457 blocks.

P11K2A - PIONEER 11 GTT TAPE #2

VOLDESC.SFD;1	55
FORMAT.SFD;5	18
SOFTWARE.SFD;3	30
PUBLICATION.SFD;2	72
GTT_P11_75B.DAT;1	20986
GTT_P11_76A.DAT;1	9891
GTT_P11_76B.DAT;1	14284
GTT_P11_77A.DAT;1	27265
GTT_P11_77B.DAT;1	17653
GTT_P11_78A.DAT;1	14952
GTT_P11_78B.DAT;1	9870

Total of 11 files, 115076 blocks.

P11K3A - PIONEER 11 GTT TAPE #3

VOLDESC.SFD;2	55
FORMAT.SFD;5	18
SOFTWARE.SFD;3	30
PUBLICATION.SFD;2	72
GTT_P11_79A.DAT;1	20875
GTT_P11_79B.DAT;1	17624
GTT_P11_80A.DAT;1	15404
GTT_P11_80B.DAT;1	15811
GTT_P11_81A.DAT;1	21869
GTT_P11_81B.DAT;1	12544
GTT_P11_82A.DAT;1	15610

Total of 11 files, 119922 blocks.

P11K4A - PIONEER 11 GTT TAPE # 4

VOLDESC.SFD;1	55
FORMAT.SFD;5	18
SOFTWARE.SFD;3	30
PUBLICATION.SFD;2	72
GTT_P11_82B.DAT;1	10238
GTT_P11_83A.DAT;1	11679
GTT_P11_83B.DAT;1	8819
GTT_P11_84A.DAT;1	11203
GTT_P11_84B.DAT;1	10430
GTT_P11_85A.DAT;1	7753
GTT_P11_85B.DAT;1	6626
GTT_P11_86A.DAT;1	8569
GTT_P11_86B.DAT;1	5530
GTT_P11_87A.DAT;1	4006
GTT_P11_87B.DAT;1	4517
GTT_P11_88A.DAT;4	9273
GTT_P11_88B.DAT;1	10198
GTT_P11_89A.DAT;1	8879

Total of 18 files, 117905 blocks.

P11K5A - PIONEER 11 GTT TAPE #5

VOLDESC.SFD;1	54
FORMAT.SFD;5	18
SOFTWARE.SFD;3	30
PUBLICATION.SFD;2	72
GTT_P11_89B.DAT;1	10561
GTT_P11_90A.DAT;1	4727
GTT_P11_90B.DAT;1	3404
GTT_P11_91A.DAT;1	2906

Total of 8 files, 21772 blocks.

Note 1: The Pioneer 10 and 11 GTT data tapes were written, and can be read, with the VAX COPY command in VMS directory format. All file sizes listed above are in VAX blocks = 512 bytes/block.

Note 2: The *.SFD (Standard Formatted Data Unit or SFDU document) files contain metadata describing the Pioneer spacecraft, GTT experiment, and dataset parameters in the VOLDESC.SFD file, the binary data file format in the FORMAT.SFD file, a sample FORTRAN code to read the binary data in the SOFTWARE.SFD file, and a list of publications in the PUBLICATION.SFD file. Only the VOLDESC.SFD file, which also lists names and time coverages of data files on the current tape volume, is changed for each new volume.

Note 3: All the GTT tapes orginally submitted by the experimenters were recopied by J. F. Cooper at NSSDC/Hughes STX with changes in the metadata file names and substitution of a new software file provided after the tape submission to NSSDC. No changes were made to the data file names or contents.

Note 4: For further information on this dataset please contact Dr. John F. Cooper by regular mail at National Space Science Data Center, Hughes STX Corporation, Code 633.9, NASA Goddard Space Flight Center, Greenbelt, MD 20771, by e-mail at ncf::jcooper or jcooper@nssdca.gsfc.nasa.gov, by phone at 301-513-1668, or by Fax at 301-513-1608.

Pioneer 10

FATS070 CONTROL CARD TABLE SIZE IS 4096 BYTES

FATAR CONTROL CARDS

```
  1--   ANALYZE LABELS=NO,RETRY=5                                  00110099
  2--   PRINT LF=14,B=1-2,L=1000,DUMP                               00130099
  3--   PRINT LF=14,B=5180-5181,L=1000,DUMP                         00131699
  4--   PRINT LF=17,B=1-2,L=1000,DUMP                               00131799
  5--   PRINT LF=17,B=8182-8183,L=1000,DUMP                         00131899
  6--   PRINT LF=20,B=1-2,L=1000,DUMP                               00131999
  7--   PRINT LF=20,B=7545-7546,L=1000,DUMP                         00132099
  8--   PRINT LF=23,B=1-2,L=1000,DUMP                               00133099
  9--   PRINT LF=23,B=7751-7752,L=1000,DUMP                         00134099
 10--   PRINT LF=26,B=1-2,L=1000,DUMP                               00135099
 11--   PRINT LF=26,B=6970-6971,L=1000,DUMP                         00136099
```

FATS071 TAPE BUFFER SIZE IS 65535 BYTES

CHARACTERISTICS OF THE TAPE TO BE ANALYZED

UNIT	SERIAL	DEN	TRTCH
5BA	CMWS02	38000	

FATAR DETAIL REPORT

```
BLOCK  LNGTH/  MESSAGE/                1...5...10...15...20...25...30...35...40...45...50...55...60...65...70...75...80
NUMBER DISPL   BLOCK TYPE                   (COLUMN GRID IS VALID ONLY FOR CHARACTER FORMATTED DATA)

* * * * * * *  START FILE       1
* * * * * * *  END OF FILE      1  -- FILE CONTAINED      5 BLOCKS
* * * * * * *  START FILE       2
* * * * * * *  END OF FILE      2  -- FILE CONTAINED     15 BLOCKS
* * * * * * *  START FILE       3
* * * * * * *  END OF FILE      3  -- FILE CONTAINED      4 BLOCKS
* * * * * * *  START FILE       4
* * * * * * *  END OF FILE      4  -- FILE CONTAINED      4 BLOCKS
* * * * * * *  START FILE       5
* * * * * * *  END OF FILE      5  -- FILE CONTAINED      5 BLOCKS
* * * * * * *  START FILE       6
* * * * * * *  END OF FILE      6  -- FILE CONTAINED      4 BLOCKS
* * * * * * *  START FILE       7
* * * * * * *  END OF FILE      7  -- FILE CONTAINED      4 BLOCKS
* * * * * * *  START FILE       8
```

C- 29439

D- 89486

FATAR DETAIL REPORT

```
BLOCK  LNGTH/  MESSAGE/                 1...5...10...15...20...25...30...35...40...45...50...55...60...65...70...75...80
NUMBER DISPL   BLOCK TYPE                        (COLUMN GRID IS VALID ONLY FOR CHARACTER FORMATTED DATA)

* * * * * * *  END OF FILE      8  -- FILE CONTAINED      8 BLOCKS

* * * * * * *  START FILE       9

* * * * * * *  END OF FILE      9  -- FILE CONTAINED      4 BLOCKS

* * * * * * *  START FILE      10

* * * * * * *  END OF FILE     10  -- FILE CONTAINED      4 BLOCKS

* * * * * * *  START FILE      11

* * * * * * *  END OF FILE     11  -- FILE CONTAINED     19 BLOCKS

* * * * * * *  START FILE      12

* * * * * * *  END OF FILE     12  -- FILE CONTAINED      4 BLOCKS

* * * * * * *  START FILE      13

* * * * * * *  END OF FILE     13  -- FILE CONTAINED      4 BLOCKS

* * * * * * *  START FILE      14

      1  2048  PRINT REQUESTED
             30393336 31393732 2D30332D 30335430  333A3032 3A35342E 35373139 0A000000  ................................
       +00033 48000000 3F000000 00000000 023F2515  00000000 0A3F77A3 00000000 0C000000  ................................
       +00065 0F000000 01000000 A5000000 25450000  00000000 25450000 00000000 25450000  ................................
       +00097 00000000 25450000 00000000 25450000  00000000 25450000 00000000 25450000  ................................
       +00129 00000000 25450000 00000000 25450000  00000000 25450000 00000000 A5450000  ................................
       +00161 00000000 A5450000 00000000 8D47A6EA  00000000 2745FFFF 00000000 C5445455  ............................E...
       +00193 00000000 8647A72A 00000000 00000000  00000000 00000000 00000000 0245AAAA  ................................
       +00225 00000000 C0430000 00000000 00000000  00000000 2A42ABAA 00000000 0A48A70A  ................................
       +00257 00000000 00000000 00000000 DC428E2F  00000000 8240C753 00000000 19403315  ....................G.......  ..
       +00289 00000000 D0425929 00000000 00000000  00000000 00000000 00000000 4A4036BB  ............................¢  ..
       +00321 00000000 143F09F2 00000000 00000000  00000000 843D5E65 00000000 D642742C  .......2................;.....O...
       +00353 00000000 00000000 00000000 2A401CBD  00000000 033F875B 00000000 C93E5255  ..............  .........$....I...
       +00385 00000000 2640E302 00000000 00000000  00000000 00000000 00000000 E73E63B1  .....  T.....................X...
       +00417 00000000 463E0C98 00000000 00000000  00000000 843D5E65 00000000 EE3F4424  .......................;........
       +00449 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
       +00481 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
       +00513 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
       +00545 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
       +00577 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
       +00609 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
       +00641 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
       +00673 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
       +00705 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
       +00737 00000000 00000000 00000000 D445FADF  00000000 7B43FEFF 00000000 1343FFFF  ............M.......#...........
       +00769 00000000 C945FA3F 00000000 00000000  00000000 00000000 00000000 4343FEFF  ....I...........................
       +00801 00000000 10420000 00000000 00000000  00000000 80400000 00000000 4F46FA0F  ....................  ......|...
```

FATAR DETAIL REPORT

```
BLOCK  LNGTH/  MESSAGE/                    1...5...10...15...20...25...30...35...40...45...50...55...60...65...70...75...80
NUMBER DISPL   BLOCK TYPE                                (COLUMN GRID IS VALID ONLY FOR CHARACTER FORMATTED DATA)

      +00705 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
      +00737 00000000 00000000 00000000 D943FFFF  00000000 B343FFFF 00000000 ED43FFFF  ............R...................
      +00769 00000000 E143FFFF 00000000 00000000  00000000 00000000 00000000 9F43FFFF  ................................
      +00801 00000000 EF42FFFF 00000000 80400000  00000000 00000000 00000000 5D44FFFF  ..... ..............)...
      +00833 00000000 80400000 00000000 00000000  084722F8 5ACE0F60 BA4175A7 E70000A7  .... ..............8!..-....X...
      +00865 7B4053B8 F8040031 A241812E 50B5806F  C8433B74 95AF0076 A144A944 1B7B8043  # ..8.......&..?H............#..
      +00897 AC44E1B2 5391806E E6B9D2C7 23D18024  07C05540 DC57009C C441B6CD 9EB78027  .......>W.KG.J..... ....D.......
      +00929 42C10568 AAAE00B8 30393336 31393734  2D30312D 30315430 303A3536 3A33382E  .A..............................
      +00961 37343231 0A000000 4A000000 01000000  00000000 953E1C8F 00000000 A93EE7E5  ........◆......................XV
      +00993 00000000 07000000                                                         ........

6970  2048  PRINT REQUESTED
            30393336 31393734 2D30362D 33305432  333A3136 3A35382E 33303232 0A000000  ................................
      +00033 4A000000 B6000000 00000000 043A006E  00000000 1E3D7081 00000000 00000000  ◆..............>................
      +00065 0F000000 01000000 11000000 08450000  00000000 08450000 00000000 08450000  ................................
      +00097 00000000 08450000 00000000 08450000  00000000 08450000 00000000 08450000  ................................
      +00129 00000000 08450000 00000000 08450000  00000000 08450000 00000000 88450000  ................................
      +00161 00000000 88450000 00000000 C5445555  00000000 E0440000 00000000 CF44FFFF  ............E...................
      +00193 00000000 38450000 00000000 00000000  00000000 00000000 00000000 2245AAAA  ................................
      +00225 00000000 0A44AAAA 00000000 00000000  00000000 2A42ABAA 00000000 8D455555  ................................
      +00257 00000000 00000000 00000000 3940B9B9  00000000 5240D2D2 00000000 4340C3C3  ..............  ......KK.....CC
      +00289 00000000 AD402D2D 00000000 00000000  00000000 00000000 00000000 99401919  ..... ..........................  ..
      +00321 00000000 823F8282 00000000 00000000  00000000 A03DA1A0 00000000 85400505  ................................
      +00353 00000000 00000000 00000000 F43EC043  00000000 023F841F 00000000 FA3E8FC7  ............4...................G
      +00385 00000000 263FB3C8 00000000 00000000  00000000 00000000 00000000 1C3F4CD1  .......H........................<J
      +00417 00000000 903EA2C9 00000000 00000000  00000000 A03DA1A0 00000000 CE3E58B8  .......I........................
      +00449 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
      +00481 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
      +00513 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
      +00545 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
      +00577 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
      +00609 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
      +00641 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
      +00673 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
      +00705 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
      +00737 00000000 00000000 00000000 14430000  00000000 28430000 00000000 1C430000  ................................
      +00769 00000000 8A430000 00000000 00000000  00000000 00000000 00000000 7343FFFF  ................................
      +00801 00000000 50420000 00000000 00000000  00000000 80400000 00000000 D4430000  ....&...........................M...
      +00833 00000000 00000000 00000000 00000000  0B47E6CB 6F4A716C A6410B41 0057E0F2  ..................W.?◆.%.......2
      +00865 82403221 4D1A7068 AF413C8C 11213049  8B44A863 879290DF AD449181 F69900A2  . ..(...........................6...
      +00897 AC44C4B3 8202A04C 3039B64F 468D3889  53409E02 DDC2507C 01425A24 CCA69060  ..D....<...|.....  ...B&@..!....-
      +00929 374120A9 65BCA072 30393336 31393734  2D30362D 33305432 333A3331 3A34392E  ................................
      +00961 33313430 0A000000 4A000000 B6000000  00000000 2B3D4805 00000000 AA3DDC8C  ........◆.......................
      +00993 00000000 01000000                                                         ........

6971  2048  PRINT REQUESTED
            30393336 31393734 2D30362D 33305432  333A3436 3A34382E 33333839 0A000000  ................................
      +00033 4A000000 B6000000 00000000 AA3DE8BE  00000000 FF3DC4CE 00000000 02000000  ◆.............Y.......D.........
      +00065 0F000000 01000000 B4010000 5A450000  00000000 5A450000 00000000 5A450000  .............!.......!.......!...
      +00097 00000000 5A450000 00000000 5A450000  00000000 5A450000 00000000 5A450000  ....!.......!.......!.......!...
      +00129 00000000 5A450000 00000000 5A450000  00000000 5A450000 00000000 DA450000  ....!.......!.......!...........
      +00161 00000000 DA450000 00000000 1F45FEFF  00000000 8B45FEFF 00000000 2745FEFF  ................................
```

FATAR DETAIL REPORT

```
BLOCK  LNGTH/  MESSAGE/                  1...5...10...15...20...25...30...35...40...45...50...55...60...65...70...75...80
NUMBER DISPL   BLOCK TYPE                          (COLUMN GRID IS VALID ONLY FOR CHARACTER FORMATTED DATA)

      +00193 00000000 2A45A9AA 00000000 00000000  00000000 2A42ABAA 00000000 5245A8AA  ................................
      +00225 00000000 AA44AAAA 00000000 2A42ABAA  00000000 00000000 00000000 A5455455  ................................
      +00257 00000000 AA42ABAA 00000000 3B40CFE3  00000000 A4405467 00000000 4540CC48  .............. .T..... ....... ..
      +00289 00000000 4840766A 00000000 00000000  00000000 483D796A 00000000 77406A63  ..... ........................ ..
      +00321 00000000 C83F776A 00000000 483D796A  00000000 00000000 00000000 42402327  ....H.......................... ..
      +00353 00000000 483D796A 00000000 C23E460D  00000000 003F6D5A 00000000 C63E0ED8  ............B.........._!....F..Q
      +00385 00000000 C83E776A 00000000 00000000  00000000 483D786A 00000000 DE3EBBAA  ....H...........................
      +00417 00000000 8D3E27B7 00000000 483D786A  00000000 00000000 00000000 8B3ECA7B  ................................#
      +00449 00000000 0D3D27B7 00000000 00000000  00000000 00000000 00000000 00000000  ................................
      +00481 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
      +00513 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
      +00545 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
      +00577 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
      +00609 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
      +00641 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
      +00673 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
      +00705 00000000 00000000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
      +00737 00000000 00000000 00000000 6F43FEFF  00000000 D143FCFF 00000000 7B43FDFF  ............?.......J.......#...
      +00769 00000000 7F43FDFF 00000000 00000000  00000000 80400000 00000000 9D43FEFF  ..................... ..........
      +00801 00000000 FF42FEFF 00000000 80400000  00000000 00000000 00000000 F743FDFF  .............. ..............7...
      +00833 00000000 00410000 00000000 00000000  0B47FBCB 08EF7055 A641323F EF64208B  ................................
      +00865 82403421 C8B39046 AF41E78C 050BD091  8B443C66 62BF70F1 AD44E681 9623007E  . ..H.....X............1..W....=
      +00897 AC44C4B3 540D606D 2D39335D F947481E  53409E0B 64F0B040 0142E124 C0007000  ..D...-_...)9.... ...0. ........
      +00929 374166CF EC5860A7 5E5E5E5E 5E5E5E5E  5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E  ......-.;;;;;;;;;;;;;;;;;;;;;;;;
      +00961 5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E  5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E  ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
      +00993 5E5E5E5E 5E5E5E5E                                                          ;;;;;;;;

* * * * * * *  END OF FILE     26  -- FILE CONTAINED    6971 BLOCKS

* * * * * * *  START FILE      27

* * * * * * *  END OF FILE     27  -- FILE CONTAINED       4 BLOCKS

* * * * * * *  START FILE      28

* * * * * * *  END OF FILE     28  -- FILE CONTAINED       0 BLOCKS

FATS020 ANALYSIS TERMINATED AT TAPEMARK SEQUENCE

                                                  FINAL TOTALS
        FILES READ  BLOCKS READ  BYTES READ   FEET READ  TEMP ERRS  PERM ERRS  FILES WRITTEN  BLOCKS WRITTEN
             27         35753     73078480        399         0          0          0               0
```

Pioneer 11

FATS070 CONTROL CARD TABLE SIZE IS 4096 BYTES

FATAR CONTROL CARDS

```
  1--   ANALYZE LABELS=NO,RETRY=5
  2--   PRINT LF=14,B=1,L=2000
  3--   PRINT LF=14,B=5752,L=2000
  4--   PRINT LF=17,B=1,L=2000
  5--   PRINT LF=17,B=2711,L=2000
  6--   PRINT LF=20,B=1,L=2000,DUMP
  7--   PRINT LF=20,B=3915,L=2000,DUMP
  8--   PRINT LF=23,B=1,L=2000,DUMP
  9--   PRINT LF=23,B=7473,L=2000,DUMP
 10--   PRINT LF=26,B=1,L=2000
 11--   PRINT LF=26,B=4839,L=2000
 12--   PRINT LF=29,B=1,L=2000,DUMP
 13--   PRINT LF=29,B=4098,L=2000,DUMP
 14--   PRINT LF=32,B=1,L=2000,DUMP
 15--   PRINT LF=32,B=2705,L=2000,DUMP
```

C- 29445

D- 89492

FATS071 TAPE BUFFER SIZE IS 65535 BYTES

CHARACTERISTICS OF THE TAPE TO BE ANALYZED

UNIT	SERIAL	DEN	TRTCH
5A3	CMWS02	38000	

FATAR DETAIL REPORT

```
BLOCK  LNGTH/  MESSAGE/                1...5...10...15...20...25...30...35...40...45...50...55...60...65...70...75...80
NUMBER DISPL   BLOCK TYPE                      (COLUMN GRID IS VALID ONLY FOR CHARACTER FORMATTED DATA)

* * * * * * *  START FILE       1
* * * * * * *  END OF FILE      1  -- FILE CONTAINED       5 BLOCKS
* * * * * * *  START FILE       2
* * * * * * *  END OF FILE      2  -- FILE CONTAINED      15 BLOCKS
* * * * * * *  START FILE       3
* * * * * * *  END OF FILE      3  -- FILE CONTAINED       4 BLOCKS
* * * * * * *  START FILE       4
* * * * * * *  END OF FILE      4  -- FILE CONTAINED       4 BLOCKS
* * * * * * *  START FILE       5
* * * * * * *  END OF FILE      5  -- FILE CONTAINED       5 BLOCKS
* * * * * * *  START FILE       6
* * * * * * *  END OF FILE      6  -- FILE CONTAINED       4 BLOCKS
* * * * * * *  START FILE       7
```

FATAR DETAIL REPORT

BLOCK NUMBER	LNGTH/ DISPL	MESSAGE/ BLOCK TYPE		
* * * * * * *		END OF FILE	7	-- FILE CONTAINED 4 BLOCKS
* * * * * * *		START FILE	8	
* * * * * * *		END OF FILE	8	-- FILE CONTAINED 8 BLOCKS
* * * * * * *		START FILE	9	
* * * * * * *		END OF FILE	9	-- FILE CONTAINED 4 BLOCKS
* * * * * * *		START FILE	10	
* * * * * * *		END OF FILE	10	-- FILE CONTAINED 4 BLOCKS
* * * * * * *		START FILE	11	
* * * * * * *		END OF FILE	11	-- FILE CONTAINED 19 BLOCKS
* * * * * * *		START FILE	12	
* * * * * * *		END OF FILE	12	-- FILE CONTAINED 4 BLOCKS
* * * * * * *		START FILE	13	
* * * * * * *		END OF FILE	13	-- FILE CONTAINED 4 BLOCKS
* * * * * * *		START FILE	14	
1	2048	PRINT REQUESTED		

1...5...10...15...20...25...30...35...40...45...50...55...60...65...70...75...80
(COLUMN GRID IS VALID ONLY FOR CHARACTER FORMATTED DATA)

```
+00080
+00160
+00240
+00320
+00400
+00480
+00560
+00640
+00720
+00800
+00880
+00960
+01040
+01120
+01200
+01280
+01360
+01440
+01520
+01600
+01680
+01760
```

FATAR DETAIL REPORT

```
BLOCK  LNGTH/  MESSAGE/                  1...5...10...15...20...25...30...35...40...45...50...55...60...65...70...75...80
NUMBER DISPL   BLOCK TYPE                (COLUMN GRID IS VALID ONLY FOR CHARACTER FORMATTED DATA)

       +01601 00000000 8644A777 00000000 B244D773  00000000 00000000 00000000 00000000  ...............P................
       +01633 00000000 31444875 00000000 4244DC57  00000000 00000000 00000000 00000000  ................................
       +01665 00000000 A944CEA0 00000000 00000000  00000000 A0410000 00000000 84430000  ................................
       +01697 00000000 74430000 00000000 A0410000  00000000 00000000 00000000 00000000  ................................
       +01729 00000000 54430000 00000000 70420000  00000000 00000000 00000000 00000000  ................................
       +01761 00000000 20420000 00000000 00000000  00000000 00000000 00000000 00000000  ................................
       +01793 FC41BB0E 81AA0001 8240F320 726E8080  E7413A3C 78C98050 8B44DF2F 2E4700AF  .........................K..
       +01825 1744235C 7102005E AC44E9BA D91380FB  353AB08C D849001E C441E9A8 EE1200FD  ...*...;..Z.R.......Q...D.Z.....
       +01857 63C03943 81858009 34410840 40F60018  5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E  ...........  6..;;;;;;;;;;;;;;;;
       +01889 5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E  5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E  ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
       +01921 5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E  5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E  ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
       +01953 5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E  5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E  ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
       +01985 5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E                                       ;;;;;;;;;;;;;;;;

* * * * * * *  END OF FILE     29  -- FILE CONTAINED    4098 BLOCKS

* * * * * * *  START FILE      30

* * * * * * *  END OF FILE     30  -- FILE CONTAINED       4 BLOCKS

* * * * * * *  START FILE      31

* * * * * * *  END OF FILE     31  -- FILE CONTAINED       4 BLOCKS

* * * * * * *  START FILE      32

     1  2048  PRINT REQUESTED
            30393336 31393738 2D30372D 30315430  373A3134 3A32392E 37383933 0B000000  ................................
       +00033 4E000000 B6000000 00000000 B13F99D1  00000000 B43FAEF2 00000000 21000000  +..............J.......2........
       +00065 0F000000 01000000 09000000 10450000  00000000 10450000 00000000 10450000  ................................
       +00097 00000000 10450000 00000000 10450000  00000000 10450000 00000000 10450000  ................................
       +00129 00000000 10450000 00000000 10450000  00000000 10450000 00000000 90450000  ................................
       +00161 00000000 90450000 00000000 55435555  00000000 28450000 00000000 E5445555  ...............................V...
       +00193 00000000 00430000 00000000 2A42ABAA  00000000 00000000 00000000 38450000  ................................
       +00225 00000000 00440000 00000000 00000000  00000000 00000000 00000000 AA43ABAA  ................................
       +00257 00000000 00000000 00000000 BD3E2FA1  00000000 95405555 00000000 4B4013DA  ..................... .......  ..
       +00289 00000000 633E398E 00000000 973D26B4  00000000 00000000 00000000 A340398E  ................................  ..
       +00321 00000000 633F398E 00000000 00000000  00000000 00000000 00000000 973E26B4  ................................
       +00353 00000000 00000000 00000000 293E229C  00000000 163F8C83 00000000 F83E6AB2  ...............................8...
       +00385 00000000 033E1761 00000000 973D26B4  00000000 00000000 00000000 1D3FA984  ......../.......................
       +00417 00000000 833E1761 00000000 00000000  00000000 00000000 00000000 D63D9B8A  ......../......................0...
       +00449 00000000 00000000 00000000 A53E8B10  00000000 944087A3 00000000 4940B6AA  ..................... .......  ..
       +00481 00000000 8D3E3F43 00000000 00000000  00000000 00000000 00000000 9F40A026  ..................... .......  ..
       +00513 00000000 783FC48B 00000000 00000000  00000000 00000000 00000000 9D3E3809  ......D.........................
       +00545 00000000 00000000 00000000 2F4117B0  00000000 1A3F8E50 00000000 1F40AFCA  ......................&.....  ..
       +00577 00000000 0441AB55 00000000 00000000  00000000 00000000 00000000 1440252D  ..................... .......  ..
       +00609 00000000 3740B1E7 00000000 00000000  00000000 00000000 00000000 27402952  .....  .X.................... ..
       +00641 00000000 00000000 00000000 4E440E43  00000000 09442F14 00000000 7E4393AC  ............+...............=...
       +00673 00000000 EB43A925 00000000 00000000  00000000 00000000 00000000 A5437556  ................................
       +00705 00000000 FE43251F 00000000 00000000  00000000 00000000 00000000 6143502C  ......................./.&.
       +00737 00000000 00000000 00000000 A0410000  00000000 7C430000 00000000 2C430000  ....................a...........
       +00769 00000000 40410000 00000000 80400000  00000000 00000000 00000000 8A430000  .... ....... ..................
```

FATAR DETAIL REPORT

```
BLOCK  LNGTH/  MESSAGE/                1...5...10...15...20...25...30...35...40...45...50...55...60...65...70...75...80
NUMBER DISPL   BLOCK TYPE                          (COLUMN GRID IS VALID ONLY FOR CHARACTER FORMATTED DATA)

       +00801 00000000 40420000 00000000 00000000  00000000 00000000 00000000 00420000  .... ............................
       +00833 00000000 00000000 00000000 00000000  224738A1 C01AC187 FC410979 B7828098  .......................A........
       +00865 82408D21 A43840CC E741CE5C E3364034  8B44358E E8B080BF 17448465 BBE9007F  . .... .X..*T. .....Y........Z..
       +00897 AC44E9BA B1D9C011 493A6018 506000DF  C441355E C2098036 65C0D9E1 5F34C0E8  ..Z..R....-.&-..D..;B.....R.-..Y
       +00929 394163B9 0A0A004C 30393336 31393738  2D30372D 30315430 373A3234 3A32332E  .......<........................
       +00961 37373732 0B000000 4E000000 B6000000  00000000 B53FD056 00000000 BA3F916C  ........+......................%
       +00993 00000000 22000000 0F000000 01000000  0E000000 60450000 00000000 60450000  ...................-........-...
       +01025 00000000 60450000 00000000 60450000  00000000 60450000 00000000 60450000  ....-.......-.......-.......-...
       +01057 00000000 60450000 00000000 60450000  00000000 60450000 00000000 60450000  ....-.......-.......-.......-...
       +01089 00000000 E0450000 00000000 E0450000  00000000 00430000 00000000 7A45AAAA  ...............................:...
       +01121 00000000 78450000 00000000 AA42ABAA  00000000 AA42ABAA 00000000 2A42ABAA  ................................
       +01153 00000000 4A45AAAA 00000000 2A44AAAA  00000000 00000000 00000000 00000000  ....Φ...........................
       +01185 00000000 55435555 00000000 2A42ABAA  00000000 123E2549 00000000 8F40F43C  ............................... 4.
       +01217 00000000 8D40DBB6 00000000 C33D310C  00000000 C33D310C 00000000 433D310C  ..... ......C.......C...........
       +01249 00000000 67407A9E 00000000 433F300C  00000000 00000000 00000000 00000000  ..... :.........................
       +01281 00000000 F33D3DCF 00000000 C33C310C  00000000 A83D8CEA 00000000 EC3ED161  ....3.......C..................J/
       +01313 00000000 EB3E131F 00000000 893D64EB  00000000 893D64EB 00000000 433D310C  ................................
       +01345 00000000 D43E588C 00000000 433E310C  00000000 00000000 00000000 00000000  ....M...........................
       +01377 00000000 5A3DE311 00000000 C33C310C  00000000 0F3E0E6F 00000000 8E4056F1  ....!.T.....C..........?..... .1
       +01409 00000000 9240C930 00000000 CE3D6472  00000000 00000000 00000000 00000000  ..... I.........................
       +01441 00000000 6240B6A0 00000000 443FBC8B  00000000 00000000 00000000 00000000  ..... ..........................
       +01473 00000000 F83D1DC2 00000000 00000000  00000000 C13F5AA2 00000000 CB3EDD58  ....8..B............A.!.........
       +01505 00000000 004069AE 00000000 B240F7CF  00000000 00000000 00000000 00000000  .... ...... 7..................
       +01537 00000000 BD3F52A2 00000000 0B3F7A0C  00000000 00000000 00000000 00000000  ...............:................
       +01569 00000000 1D409177 00000000 00000000  00000000 77449B20 00000000 FC4354F7  ..... ........................7
       +01601 00000000 9044AD73 00000000 244442D4  00000000 00000000 00000000 00000000  ................M...............
       +01633 00000000 0E44F315 00000000 8744E665  00000000 00000000 00000000 00000000  ......3.......W.................
       +01665 00000000 1A44B681 00000000 00000000  00000000 40410000 00000000 BC430000  ..................... ..........
       +01697 00000000 BA430000 00000000 00410000  00000000 00410000 00000000 80400000  ................................
       +01729 00000000 98430000 00000000 80420000  00000000 00000000 00000000 00000000  ................................
       +01761 00000000 A0410000 00000000 80400000  00000000 00000000 224741A1 A119D759  ...............................P.
       +01793 FC413E7A 52E38033 82408E21 38F8C019  E7412D5D 2B05C071 8B44488F FD3D80B4  ...:.T... ...8..X..)............
       +01825 1744A065 01380069 AC44E9BA F0DB40D8  493A4251 0DA30009 C4415B5D F8A08065  ..........Z.0. Q........D.$)8...
       +01857 65C078E9 B7EC4029 394151C9 C06600D4  5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E  ...Z.. ....I...M;;;;;;;;;;;;;;;
       +01889 5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E  5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E  ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
       +01921 5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E  5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E  ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
       +01953 5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E  5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E  ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
       +01985 5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E                                       ;;;;;;;;;;;;;;;;

 2705  2048  PRINT REQUESTED
              30393336 31393738 2D31322D 33315430  393A3236 3A30382E 32363430 0B000000  ................................
       +00033 4E000000 6D010000 00000000 E03FF41A  00000000 E53F8030 00000000 2A000000  +..._.........4.....V...........
       +00065 0F000000 01000000 0E000000 60450000  00000000 60450000 00000000 60450000  ...........-.......-.......-...
       +00097 00000000 60450000 00000000 60450000  00000000 60450000 00000000 60450000  ....-.......-.......-.......-...
       +00129 00000000 60450000 00000000 60450000  00000000 60450000 00000000 E0450000  ....-.......-.......-...........
       +00161 00000000 E0450000 00000000 AA42ABAA  00000000 4D455555 00000000 2245AAAA  ....................(...........
       +00193 00000000 2A43ABAA 00000000 00000000  00000000 2A42ABAA 00000000 8245AAAA  ................................
       +00225 00000000 95445555 00000000 00000000  00000000 00000000 00000000 80430000  ................................
       +00257 00000000 2A42ABAA 00000000 C33D310C  00000000 6A40AAAA 00000000 39409EE7  ............C....... ....... .X
       +00289 00000000 433E310C 00000000 00000000  00000000 433D310C 00000000 95405555  ................................
       +00321 00000000 AA3FAAAA 00000000 00000000  00000000 00000000 00000000 123E2449  ................................
       +00353 00000000 C33C310C 00000000 893D64EB  00000000 D53E26F1 00000000 BE3EDC6B  ....C...............N..1.......,
```

FATAR DETAIL REPORT

```
BLOCK  LNGTH/  MESSAGE/                 1...5...10...15...20...25...30...35...40...45...50...55...60...65...70...75...80
NUMBER DISPL   BLOCK TYPE                          (COLUMN GRID IS VALID ONLY FOR CHARACTER FORMATTED DATA)

      +00385 00000000 C33D310C 00000000 00000000  00000000 433D310C 00000000 F13EEE5B  ....C.......................1..$
      +00417 00000000 813E0A03 00000000 00000000  00000000 00000000 00000000 6E3D32E2  ............................>..S
      +00449 00000000 C33C310C 00000000 CA3D024F  00000000 6D40829B 00000000 3740D19F  ....C..........|....._ ....... J.
      +00481 00000000 333E4EE9 00000000 00000000  00000000 00000000 00000000 9340304E  ......+Z...................... .+
      +00513 00000000 A73FCFB2 00000000 00000000  00000000 00000000 00000000 0E3ED28D  ............................K.
      +00545 00000000 00000000 00000000 EF409C25  00000000 0A40ABBF 00000000 743F239A  ............ ......  ..........
      +00577 00000000 C0402525 00000000 00000000  00000000 00000000 00000000 853F7520  .... ......................
      +00609 00000000 CE3F883C 00000000 00000000  00000000 00000000 00000000 D340C1A1  ............................L A.
      +00641 00000000 00000000 00000000 76447AE3  00000000 2A44CE21 00000000 B344C787  ...............:T..............G.
      +00673 00000000 8244FD33 00000000 00000000  00000000 00000000 00000000 B1408447  ..............................; ..
      +00705 00000000 A7445CAF 00000000 00000000  00000000 00000000 00000000 7D44B019  ......*.....................'...
      +00737 00000000 00000000 00000000 00410000  00000000 9A430000 00000000 74430000  ..............................
      +00769 00000000 80410000 00000000 00000000  00000000 80400000 00000000 C4430000  ..............................D...
      +00801 00000000 E0420000 00000000 00000000  00000000 00000000 00000000 C0410000  ..............................
      +00833 00000000 80400000 00000000 00000000  2547977D C6AB4DDF F6419FDA 93290089  .... .............'F.(.6.......
      +00865 7B40A8BB 080200B7 0242AB97 7EEE00A1  C6438EB6 669600B8 1F445E0E 42EB0052  # ..........=...F.........;.....
      +00897 AC44CEBB 52F100DD 69BA6222 28CD008F  8541F493 A87C009A 41C123F4 9CD10034  .....1............4..@...A.4.J..
      +00929 3BC1117E 622600E0 30393336 31393738  2D31322D 33315430 393A3432 3A33382E  .A.=.........................
      +00961 32363631 0B000000 4E000000 6D010000  00000000 E53FBDF8 00000000 EA3F0B46  ........+...._.......V..8........
      +00993 00000000 2B000000 0F000000 01000000  0C000000 40450000 00000000 40450000  ..............  .......  ...
      +01025 00000000 40450000 00000000 40450000  00000000 40450000 00000000 40450000  ....  .......  .......  .......  ...
      +01057 00000000 40450000 00000000 40450000  00000000 40450000 00000000 40450000  ....  .......  .......  .......  ...
      +01089 00000000 C0450000 00000000 C0450000  00000000 55435555 00000000 3A45AAAA  ..............................
      +01121 00000000 1A45AAAA 00000000 2A43ABAA  00000000 2A42ABAA 00000000 00000000  ..............................
      +01153 00000000 48450000 00000000 55445555  00000000 00000000 00000000 00000000  ..............................
      +01185 00000000 C0430000 00000000 00000000  00000000 8E3EE338 00000000 78408EE3  ......................T...... .T
      +01217 00000000 4E40E338 00000000 633E398E  00000000 633D398E 00000000 00000000  ....+ T.......................
      +01249 00000000 85405555 00000000 8E3FE338  00000000 00000000 00000000 00000000  .....  ........T.............
      +01281 00000000 803E0000 00000000 00000000  00000000 FE3D336A 00000000 ED3EB9FB  ..............................
      +01313 00000000 D83E5EA0 00000000 E33D398E  00000000 633D398E 00000000 00000000  ....Q.;.....T.................
      +01345 00000000 F63E0B56 00000000 7E3E336A  00000000 00000000 00000000 00000000  ....6......=.................
      +01377 00000000 AA3DABAA 00000000 00000000  00000000 853EE67D 00000000 77408E02  ......................W'.....  ..
      +01409 00000000 4E40E228 00000000 5D3E6AD5  00000000 00000000 00000000 00000000  ....+ S.....)..N.............
      +01441 00000000 87407BC7 00000000 8E3F7FAC  00000000 00000000 00000000 00000000  .....  #G....................
      +01473 00000000 7E3E6C5C 00000000 00000000  00000000 5840C0C9 00000000 093F0233  ....=.%*............  .I........
      +01505 00000000 463FF01E 00000000 5F4015C1  00000000 00000000 00000000 00000000  ......0.....¬  .A.............
      +01537 00000000 6A3F35BC 00000000 D93FCC4E  00000000 00000000 00000000 00000000  ............R..+..............
      +01569 00000000 4C3FFA8A 00000000 00000000  00000000 63448AA7 00000000 2F4414EA  ....<.........................
      +01601 00000000 0E440C95 00000000 2C43E03E  00000000 00000000 00000000 00000000  ..............................
      +01633 00000000 83441521 00000000 D7437CE4  00000000 00000000 00000000 00000000  ............P.@U..............
      +01665 00000000 70448F85 00000000 00000000  00000000 A0410000 00000000 8C430000  ..............................
      +01697 00000000 68430000 00000000 80410000  00000000 80400000 00000000 00000000  ..................  ...........
      +01729 00000000 96430000 00000000 A0420000  00000000 00000000 00000000 00000000  ..............................
      +01761 00000000 10420000 00000000 00000000  00000000 00000000 2547A27D 469F4B13  ............................'...
      +01793 F641B5D9 D467002A 7B40A4BB 9A460056  0242E497 0A47009A C64323BC 6CE200B0  6..RM...# ........U.....F...%S..
      +01825 1F44780E BCDC00D4 AC44CEBB 0FF400B2  68BAE3E6 DCA00046 85411A93 62860024  .......M.....4....TW.........
      +01857 41C1EFF5 22190048 3BC1C692 023800C0  5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E  .A.5.....AF....;;;;;;;;;;;;;;;;
      +01889 5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E  5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E  ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
      +01921 5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E  5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E  ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
      +01953 5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E  5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E  ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
      +01985 5E5E5E5E 5E5E5E5E 5E5E5E5E 5E5E5E5E                                       ;;;;;;;;;;;;;;;;
```

FATAR DETAIL REPORT

```
BLOCK  LNGTH/  MESSAGE/                1...5...10...15...20...25...30...35...40...45...50...55...60...65...70...75...80
NUMBER DISPL   BLOCK TYPE                        (COLUMN GRID IS VALID ONLY FOR CHARACTER FORMATTED DATA)

* * * * * * *  END OF FILE     32  -- FILE CONTAINED    2705 BLOCKS

* * * * * * *  START FILE      33

* * * * * * *  END OF FILE     33  -- FILE CONTAINED       4 BLOCKS

* * * * * * *  START FILE      34

* * * * * * *  END OF FILE     34  -- FILE CONTAINED       0 BLOCKS

FATS020 ANALYSIS TERMINATED AT TAPEMARK SEQUENCE
```

FINAL TOTALS

FILES READ	BLOCKS READ	BYTES READ	FEET READ	TEMP ERRS	PERM ERRS	FILES WRITTEN	BLOCKS WRITTEN
33	31629	64601040	353	0	0	0	0

FATAR TAPE SUMMARY FOR TAPE VOLUME -CMWS02- AT DENSITY 38000 BPI 3/24/93

PHYS FILE	DATASET NAME (LAST 17 CHARS)	FILE SERIAL	FIL# VOL#	CRDATE	EXPDATE	REC-FM	LRECL BLKSZ	CREATING JOB&STEP	SEC	BLOCKS READ	BYTES READ	PERM TEMP	---BLOCKSIZES---- MIN	AVG	MAX	EST. FEET
1	ZMCOWFD2.R0003337									5	400	0	80	80	80	0
2	ZMCOWFD2.R0003337									15	31K	0	2048	2048	2048	0
3	ZMCOWFD2.R0003337									4	320	0	80	80	80	0
4	ZMCOWFD2.R0003337									4	320	0	80	80	80	0
5	ZMCOWFD2.R0003337									5	10K	0	2048	2048	2048	0
6	ZMCOWFD2.R0003337									4	320	0	80	80	80	0
7	ZMCOWFD2.R0003337									4	320	0	80	80	80	0
8	ZMCOWFD2.R0003337									8	16K	0	2048	2048	2048	0
9	ZMCOWFD2.R0003337									4	320	0	80	80	80	0
10	ZMCOWFD2.R0003337									4	320	0	80	80	80	0
11	ZMCOWFD2.R0003337									19	39K	0	2048	2048	2048	0
12	ZMCOWFD2.R0003337									4	320	0	80	80	80	0
13	ZMCOWFD2.R0003337									4	320	0	80	80	80	0
14	ZMCOWFD2.R0003337									5752	12M	0	2048	2048	2048	64
15	ZMCOWFD2.R0003337									4	320	0	80	80	80	0
16	ZMCOWFD2.R0003337									4	320	0	80	80	80	0
17	ZMCOWFD2.R0003337									2711	5552K	0	2048	2048	2048	30
18	ZMCOWFD2.R0003337									4	320	0	80	80	80	0
19	ZMCOWFD2.R0003337									4	320	0	80	80	80	0
20	ZMCOWFD2.R0003337									3915	8018K	0	2048	2048	2048	44
21	ZMCOWFD2.R0003337									4	320	0	80	80	80	0
22	ZMCOWFD2.R0003337									4	320	0	80	80	80	0
23	ZMCOWFD2.R0003337									7473	15M	0	2048	2048	2048	84
24	ZMCOWFD2.R0003337									4	320	0	80	80	80	0
25	ZMCOWFD2.R0003337									4	320	0	80	80	80	0
26	ZMCOWFD2.R0003337									4839	9910K	0	2048	2048	2048	54
27	ZMCOWFD2.R0003337									4	320	0	80	80	80	0

FATAR

TAPE SUMMARY FOR TAPE VOLUME -CMWS02- AT DENSITY 38000 BPI

3/24/93

PHYS FILE	DATASET NAME (LAST 17 CHARS)	FILE SERIAL	FIL# VOL#	CRDATE	EXPDATE	REC-FM	LRECL BLKSZ	CREATING JOB&STEP	SEC	BLOCKS READ	BYTES READ	PERM TEMP	---BLOCKSIZES---- MIN	AVG	MAX	EST. FEET
28	ZMCOWFD2.R0003337									4	320	0	80	80	80	0
29	ZMCOWFD2.R0003337									4098	8393K	0	2048	2048	2048	45
30	ZMCOWFD2.R0003337									4	320	0	80	80	80	0
31	ZMCOWFD2.R0003337									4	320	0	80	80	80	0
32	ZMCOWFD2.R0003337									2705	5540K	0	2048	2048	2048	30
33	ZMCOWFD2.R0003337									4	320	0	80	80	80	0
34	ZMCOWFD2.R0003337									0	0	0	0	0	0	0
	HIGHEST EXPIRATION ====>							TOTALS ====>		31629	65M	0				351