#393

IMP-J

5.46 Minute Averaged Count Rates
73-078A-07B

&

Sectored Rate & PHA (JOST) Tapes
73-078A-07A

IMP-J

SECTORED RATE AND PHA (JOST TAPES)

5.46 MINUTE AVG. COUNT RATES

73-078A-07A

73-078A-07B

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY THERE WERE 632 7-TRACK, 800 BPI TAPES AND 9-TRACK, 1600 BPI TAPES WRITTEN IN BINARY FOR 73-078A-07A AND 30 9-TRACK, 1600 BPI TAPES WRITTEN IN BINARY FOR 73-078A-07B. D078671 FOR -07B IS MISSING. THERE ARE 136 RESTORED TAPES FOR -07A AND 4 RESTORED TAPES FOR -07B. THESE TAPES WERE CREATED ON AN IBM 360 COMPUTER. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND THE TIME SPANS ARE AS FOLLOWS:

73-078A-07A

DR#	DS#	D#	FILES	TIME SPAN
DR01038	DS01038	D28949	1	10/30/73 - 11/03/73
		D28944	2-3	11/03/73 - 11/11/73
		D28939	4-5	11/11/73 - 11/19/73
		D28947	6-7	11/19/73 - 11/27/73
		D28923	8-9	11/27/73 - 12/06/73
		D28924	10-11	12/06/73 - 12/14/73
DR01039	DS01039	D28932	1-2	12/14/73 - 12/22/73
		D28933	3-4	12/22/73 - 12/31/73
		D28931	5-6	12/31/73 - 01/08/74
		D28951	7-8	01/08/74 - 01/16/74
		D28952	9-10	01/16/74 - 01/24/74
		D28942	11-12	01/24/74 - 02/01/74
DR01040	DS01040	D28938	1-2	02/01/74 - 02/09/74
		D28922	3-4	02/09/74 - 02/17/74
		D28959	5-6	02/17/74 - 02/25/74
		D28948	7-8	02/25/74 - 03/05/74
		D28940	9-10	03/05/74 - 03/12/74
		D28950	11-12	03/12/74 - 03/21/74
DR01041	DS01041	D28945	1-2	03/21/74 - 03/29/74
		D28928	3-4	03/29/74 - 04/06/74
		D28927	5-6	04/06/74 - 04/14/74
		D28930	7-8	04/14/74 - 04/23/74
		D28934	9-10	04/23/74 - 05/01/74
		D28926	11-12	05/01/74 - 05/09/74

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DR#	DS#	D#	FILES	TIME SPAN
DR01042	DS01042	D28925	1-2	05/09/74 - 05/17/74
		D28937	3-4	05/17/74 - 05/25/74
		D28936	5-6	05/25/74 - 06/03/74
		D28935	7-8	06/03/74 - 06/10/74
		D28921	9-10	06/10/74 - 06/18/74
		D28958	11-12	06/18/74 - 06/26/74
DR01043	DS01043	D28957	1-2	06/26/74 - 07/04/74
		D28956	3-4	07/04/74 - 07/12/74
		D28955	5-6	07/12/74 - 07/20/74
		D28920	7-8	07/20/74 - 07/29/74
		D28919	9-10	07/29/74 - 08/05/74
		D28929	11-12	08/05/74 - 08/14/74
DR01044	DS01044	D28946	1-2	08/14/74 - 08/22/74
		D28954	3-4	08/22/74 - 08/30/74
		D28953	5-6	08/30/74 - 09/07/74
		D28943	7-8	09/07/74 - 09/15/74
		D28918	9-10	09/15/74 - 09/23/74
		D28941	11-12	09/23/74 - 10/01/74
DR01045	DS01045	D31127	1-2	10/01/74 - 10/08/74
		D31128	3-4	10/08/74 - 10/16/74
		D31129	5-6	10/16/74 - 10/25/74
		D31130	7-8	10/25/74 - 11/02/74
		D31131	9-10	11/02/74 - 11/06/74
		D31132	11-12	11/10/74 - 11/18/74
DR01046	DS01046	D31133	1-2	11/18/74 - 11/26/74
		D31134	3-4	11/26/74 - 12/04/74
		D31135	5-6	12/04/74 - 12/12/74
		D31136	7-8	12/12/74 - 12/20/74
		D31137	9-10	12/20/74 - 12/24/74
		D31138	11-12	12/28/74 - 01/06/75
DR01047	DS01047	D31139	1-2	01/06/75 - 01/13/75
		D31140	3-4	01/13/75 - 01/21/75
		D31141	5-6	01/21/75 - 01/29/75
		D31142	7-8	01/29/75 - 02/06/75
		D31143	9-10	02/06/75 - 02/14/75
		D31144	11-12	02/14/75 - 02/22/75
DR01048	DS01048	D31145	1-2	02/22/75 - 03/02/75
		D31146	3-4	03/02/75 - 03/10/75
		D31147	5-6	03/10/75 - 03/18/75
		D31148	7-8	03/18/75 - 03/26/75
		D31149	9-10	03/26/75 - 04/03/75
		D31150	11-12	04/03/75 - 04/11/75
DR01049	DS01049	D31151	1-2	04/11/75 - 04/19/75
		D31152	3-4	04/19/75 - 04/27/75
		D31153	5-6	04/27/75 - 05/05/75
		D31154	7-8	05/05/75 - 05/13/75
		D31155	9-10	05/13/75 - 05/21/75
		D31156	11-12	05/21/75 - 05/29/75

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DR#	DS#	D#	FILES	TIME SPAN
DR01050	DS01050	D31157	1-2	05/29/75 - 06/06/75
		D31158	3-4	06/06/75 - 06/14/75
		D31159	5-6	06/14/75 - 06/22/75
		D31160	7-8	06/22/75 - 06/30/75
		D31161	9-10	06/30/75 - 07/04/75
		D31162	11-12	07/08/75 - 07/16/75
DR01051	DS01051	D31163	1-2	07/16/75 - 07/24/75
		D31164	3-4	07/24/75 - 07/31/75
		D31165	5-6	07/31/75 - 08/09/75
		D31166	7-8	08/09/75 - 08/16/75
		D31167	9-10	08/16/75 - 08/24/75
		D31168	11-12	08/24/75 - 09/01/75
DR01052	DS01052	D31169	1-2	09/01/75 - 09/09/75
		D31170	3-4	09/09/75 - 09/17/75
		D31171	5-6	09/17/75 - 09/25/75
		D31172	7-8	09/25/75 - 10/03/75
DR00925	DS00925	D33513	1-2	10/03/75 - 10/13/75
		D33514	3-4	10/11/75 - 10/19/75
		D33515	5-6	10/19/75 - 10/27/75
		D33516	7-8	10/27/75 - 11/04/75
		D33517	9-10	11/04/75 - 11/12/75
		D33518	11-12	11/12/75 - 11/20/75
DR00926	DS00926	D33519	1-2	11/20/75 - 11/28/75
		D33520	3-4	11/28/75 - 12/06/75
		D33521	5-6	12/06/75 - 12/13/75
		D33522	7-8	12/14/75 - 12/22/75
		D33523	9-10	12/22/75 - 12/30/75
		D33524	11-12	12/30/75 - 01/06/76
DR00927	DS00927	D33525	1-2	01/07/76 - 01/16/76
		D33526	3-4	01/14/76 - 01/23/76
		D33527	5-6	01/23/76 - 01/31/76
		D33528	7-8	01/31/76 - 02/08/76
		D33529	9-10	02/08/76 - 02/15/76
		D33530	11-12	02/15/76 - 02/23/76
		D33531	13-14	02/23/76 - 03/02/76
DR00928	DS00928	D33532	1-2	03/02/76 - 03/10/76
		D33533	3-4	03/10/76 - 03/18/76
		D33534	5-6	03/18/76 - 03/26/76
		D33535	7-8	03/26/76 - 04/03/76
		D33536	9-10	04/03/76 - 04/11/76
		D33537	11-12	04/12/76 - 04/19/76
		D33538	13-14	04/19/76 - 04/27/76

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DR#	DS#	D#	FILES	TIME SPAN
DR00929	DS00929	D33539	1-2	04/27/76 - 05/01/76
		D33540	3-4	05/06/76 - 05/14/76
		D33541	5-6	05/14/76 - 05/21/76
		D33542	7-8	05/21/76 - 05/29/76
		D33543	9-10	05/30/76 - 06/03/76
		D33544	11-12	06/07/76 - 06/15/76
		D33545	13-14	06/15/76 - 06/22/76
DR00930	DS00930	D33546	1-2	06/23/76 - 07/01/76
		D33547	3-4	07/01/76 - 07/09/76
		D33548	5-6	07/09/76 - 07/17/76
		D33549	7-8	07/17/76 - 07/25/76
		D33550	9-10	07/25/76 - 08/02/76
		D33551	11-12	08/02/76 - 08/10/76
DR00931	DS00931	D33552	1-2	08/10/76 - 08/18/76
		D33553	3-4	08/18/76 - 08/26/76
		D33554	5-6	08/26/76 - 09/03/76
		D33555	7-8	09/03/76 - 09/11/76
		D33556	9-10	09/11/76 - 09/19/76
		D33557	11-12	09/19/76 - 09/27/76
DR00932	DS00932	D37897	1-2	09/28/76 - 10/06/76
		D37898	3-4	10/06/76 - 10/10/76
		D37899	5-6	10/14/76 - 10/22/76
		D37900	7-8	10/22/76 - 10/30/76
		D37901	9-10	10/31/76 - 11/08/76
		D37902	11-12	11/08/76 - 11/16/76
DR00933	DS00933	D37903	1-2	11/16/76 - 11/24/76
		D37904	3-4	11/24/76 - 12/02/76
		D37905	5-6	12/02/76 - 12/10/76
		D37906	7-8	12/10/76 - 12/18/76
		D37907	9-10	12/18/76 - 12/26/76
		D37908	11-12	12/26/76 - 01/02/77
DR00934	DS00934	D37909	1-2	01/02/77 - 01/10/77
		D37910	3-4	01/10/77 - 01/18/77
		D37911	5-6	01/18/77 - 01/26/77
		D37912	7-8	01/26/77 - 02/03/77
		D37913	9-10	02/03/77 - 02/11/77
		D37914	11-12	02/11/77 - 02/19/77
DR00935	DS00935	D37915	1-2	02/20/77 - 02/28/77
		D37916	3-4	02/28/77 - 03/08/77
		D37917	5-6	03/08/77 - 03/16/77
		D37918	7-8	03/16/77 - 03/24/77
		D37919	9-10	03/24/77 - 04/01/77
		D37920	11-12	04/01/77 - 04/09/77

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DR#	DS#	D#	FILES	TIME SPAN
DR00936	DS00936	D37921	1-2	04/09/77 - 04/17/77
		D37922	3-4	04/17/77 - 04/25/77
		D37923	5-6	04/25/77 - 05/03/77
		D37924	7-8	05/03/77 - 05/11/77
		D37925	9-10	05/11/77 - 05/19/77
		D37926	11-12	05/19/77 - 05/27/77
DR00937	DS00937	D37927	1-2	05/27/77 - 06/04/77
		D37928	3-4	06/05/77 - 06/13/77
		D37929	5-6	06/13/77 - 06/21/77
		D37930	7-8	06/21/77 - 06/29/77
		D37931	9-10	06/29/77 - 07/07/77
		D37932	11-12	07/07/77 - 07/14/77
DR00938	DS00938	D37933	1-2	07/15/77 - 07/23/77
		D37934	3-4	07/23/77 - 07/31/77
		D37935	5-6	07/31/77 - 08/08/77
		D37936	7-8	08/08/77 - 08/16/77
		D37937	9-10	08/16/77 - 08/24/77
		D37938	11-12	08/24/77 - 09/01/77
DR00939	DS00939	D37939	1-2	09/01/77 - 09/09/77
		D37940	3-4	09/11/77 - 09/18/77
		D37941	5-6	09/18/77 - 09/26/77
DR00940	DS00940	D43405	1-2	09/26/77 - 10/01/77
		D43406	3-4	10/04/77 - 10/12/77
		D43407	5-6	10/12/77 - 10/20/77
		D43408	7-8	10/20/77 - 10/28/77
		D43409	9-10	10/28/77 - 11/05/77
		D43410	11-12	11/05/77 - 11/12/77
		D43411	13-14	11/13/77 - 11/21/77
DR00941	DS00941	D43412	1-2	11/21/77 - 11/29/77
		D43413	3-4	11/29/77 - 12/07/77
		D43414	5-6	12/07/77 - 12/15/77
		D43415	7-8	12/15/77 - 12/23/77
		D43416	9-10	12/23/77 - 01/01/78
		D43417	11-12	01/01/78 - 01/09/78
DR00942	DS00942	D43418	1-2	01/09/78 - 01/17/78
		D43419	3-4	01/17/78 - 01/25/78
		D43420	5-6	01/25/78 - 02/02/78
		D43421	7-8	02/02/78 - 02/10/78
		D43422	9-10	02/10/78 - 02/18/78
		D43423	11-12	02/18/78 - 02/26/78
DR00943	DS00943	D43424	1-2	02/26/78 - 03/06/78
		D43425	3-4	03/06/78 - 03/14/78
		D43426	5-6	03/14/78 - 03/22/78
		D43427	7-8	03/22/78 - 03/30/78
		D43428	9-10	03/30/78 - 04/07/78
		D43429	11-12	04/07/78 - 04/16/78

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DR#	DS#	D#	FILES	TIME SPAN
DR00944	DS00944	D43430	1-2	04/16/78 - 04/24/78
		D43431	3-4	04/24/78 - 05/02/78
		D43432	5-6	05/02/78 - 05/10/78
		D43433	7-8	05/10/78 - 05/18/78
		D43434	9-10	05/18/78 - 05/26/78
		D43435	11-12	05/26/78 - 06/03/78
		D43436	13-14	06/03/78 - 06/11/78
DR00945	DS00945	D43437	1-2	06/11/78 - 06/19/78
		D43438	3-4	06/19/78 - 06/27/78
		D43439	5-6	06/27/78 - 07/05/78
		D43440	7-8	07/05/78 - 07/13/78
		D43441	9-10	07/13/78 - 07/21/78
		D43442	11-12	07/21/78 - 07/30/78
		D43443	13-14	07/30/78 - 08/07/78
DR00946	DS00946	D43444	1-2	08/07/78 - 08/15/78
		D43445	3-4	08/15/78 - 08/23/78
		D43446	5-6	08/23/78 - 08/31/78
		D43447	7-8	08/31/78 - 09/08/78
		D43448	9-10	09/08/78 - 09/16/78
		D43449	11-12	09/16/78 - 09/24/78
DR00947	DS00947	D47330	1-2	09/24/78 - 10/02/78
		D47331	3-4	10/02/78 - 10/10/78
		D47332	5-6	10/10/78 - 10/18/78
		D47333	7-8	10/18/78 - 10/26/78
		D47334	9-10	10/26/78 - 11/03/78
		D47335	11-12	11/03/78 - 11/11/78
		D47336	13-14	11/12/78 - 11/20/78
DR00948	DS00948	D47337	1-2	11/20/78 - 11/28/78
		D47338	3-4	11/28/78 - 12/06/78
		D47339	5-6	12/06/78 - 12/14/78
		D47340	7-8	12/14/78 - 12/23/78
		D47341	9-10	12/23/78 - 12/30/78
		D47342	11-12	12/30/78 - 01/08/79
DR00949	DS00949	D47343	1-2	01/08/79 - 01/15/79
		D47344	3-4	01/15/79 - 01/23/79
		D47345	5-6	01/23/79 - 01/31/79
		D47346	7-8	01/31/79 - 02/08/79
		D47347	9-10	02/08/79 - 02/16/79
		D47348	11-12	02/16/79 - 02/25/79
		D47349	13-14	02/25/79 - 03/05/79
DR00950	DS00950	D47350	1-2	03/05/79 - 03/13/79
		D47351	3-4	03/13/79 - 03/21/79
		D47352	5-6	03/21/79 - 03/29/79
		D47353	7-8	03/30/79 - 04/07/79
		D47354	9-10	04/07/79 - 04/15/79
		D47355	11-12	04/15/79 - 04/23/79
		D47356	13-14	04/23/79 - 05/01/79

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DR#	DS#	D#	FILES	TIME SPAN
DR00951	DS00951	D47357	1-2	05/01/79 - 05/08/79
		D47358	3-4	05/09/79 - 05/17/79
		D47359	5-6	05/17/79 - 05/24/79
		D47360	7-8	05/24/79 - 06/01/79
		D47361	9-10	06/02/79 - 06/10/79
		D47362	11-12	06/10/79 - 06/18/79
		D47363	13-14	06/18/79 - 06/26/79
DR00952	DS00952	D47364	1-2	06/26/79 - 07/04/79
		D47365	3-4	07/04/79 - 07/13/79
		D47366	5-6	07/13/79 - 07/21/79
		D47367	7-8	07/21/79 - 07/29/79
		D47368	9-10	07/29/79 - 08/06/79
		D47369	11-12	08/06/79 - 08/14/79
		D47370	13-14	08/14/79 - 08/22/79
DR00953	DS00953	D47371	1-2	08/22/79 - 08/30/79
		D47372	3-4	08/30/79 - 09/07/79
		D47373	5-6	09/07/79 - 09/15/79
		D47374	7-8	09/15/79 - 09/23/79
		D56957	9-10	09/23/79 - 10/01/79
		D56958	11-12	10/01/79 - 10/09/79
		D56959	13-14	10/09/79 - 10/17/79
DR00954	DS00954	D56960	1-2	10/18/79 - 10/26/79
		D56961	3-4	10/26/79 - 11/03/79
		D56962	5-6	11/03/79 - 11/11/79
		D56963	7-8	11/11/79 - 11/19/79
		D56964	9-10	11/19/79 - 11/27/79
		D56965	11-12	11/27/79 - 12/05/79
		D56966	13-14	12/05/79 - 12/13/79
DR00955	DS00955	D56967	1-2	12/13/79 - 12/21/79
		D56968	3-4	12/21/79 - 12/28/79
		D56969	5-6	12/29/79 - 01/06/80
		D56970	7-8	01/06/80 - 01/14/80
		D56971	9-10	01/14/80 - 01/22/80
		D56972	11-12	01/22/80 - 01/31/80
		D56973	13-14	01/31/80 - 02/08/80
DR00956	DS00956	D56974	1-2	02/08/80 - 02/16/80
		D56975	3-4	02/16/80 - 02/24/80
		D56976	5-6	02/24/80 - 03/03/80
		D56977	7-8	03/03/80 - 03/11/80
		D56978	9-10	03/11/80 - 03/19/80
		D56979	11-12	03/19/80 - 03/27/80
		D56980	13-14	03/27/80 - 04/04/80
		D56981	15-16	04/04/80 - 04/12/80

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DR#	DS#	D#	FILES	TIME SPAN
DR00957	DS00957	D56982	1-2	04/12/80 - 04/20/80
		D56983	3-4	04/20/80 - 04/28/80
		D56984	5-6	04/28/80 - 05/07/80
		D56985	7-8	05/07/80 - 05/15/80
		D56986	9	05/15/80 - 05/23/80
		D56987	10-11	05/23/80 - 05/31/80
		D56988	12-13	05/31/80 - 06/09/80
DR00958	DS00958	D56989	1-2	06/09/80 - 06/17/80
		D56990	3-4	06/17/80 - 06/25/80
		D56991	5-6	06/25/80 - 07/02/80
		D56992	7-8	07/02/80 - 07/11/80
		D56993	9-10	07/11/80 - 07/19/80
		D56994	11-12	07/19/80 - 07/27/80
		D56995	13-14	07/27/80 - 08/04/80
DR00959	DS00959	D56996	1-2	08/04/80 - 08/12/80
		D56997	3-4	08/12/80 - 08/20/80
		D56998	5-6	08/20/80 - 08/28/80
		D56999	7-8	08/28/80 - 09/05/80
		D57000	9-10	09/06/80 - 09/13/80
		D57001	11-12	09/14/80 - 09/22/80
		D62622	13-14	09/22/80 - 09/30/80
DR00971	DS00971	D62623	1-2	09/30/80 - 10/08/80
		D62624	3-4	10/08/80 - 10/16/80
		D62625	5-6	10/16/80 - 10/24/80
		D62626	7-8	10/24/80 - 11/01/80
		D62627	9-10	11/01/80 - 11/09/80
		D62628	11-12	11/09/80 - 11/17/80
		D62629	13-14	11/17/80 - 11/25/80
		D62630	15-16	11/25/80 - 12/03/80
DR00972	DS00972	D62631	1-2	12/03/80 - 12/12/80
		D62632	3-4	12/12/80 - 12/20/80
		D62633	5-6	12/20/80 - 12/29/80
		D62634	7-8	12/29/80 - 01/06/81
		D62635	9-10	01/06/81 - 01/14/81
		D62636	11-12	01/14/81 - 01/22/81
		D62637	13-14	01/22/81 - 01/30/81
		D62638	15-16	01/30/81 - 02/07/81
		D62639	17-18	02/07/81 - 02/15/81
DR00973	DS00973	D62640	1-2	02/15/81 - 02/23/81
		D62641	3-4	02/23/81 - 03/03/81
		D62642	5-6	03/03/81 - 03/10/81
		D62643	7-8	03/10/81 - 03/19/81
		D62644	9-10	03/19/81 - 03/27/81
		D62645	11-12	03/27/81 - 04/04/81
		D62646	13-14	04/04/81 - 04/12/81
		D62647	15-16	04/12/81 - 04/21/81
		D62648	17-18	04/21/81 - 04/29/81
		D62649	19-20	04/29/81 - 05/07/81
		D62650	21-22	05/08/81 - 05/16/81
		D62651	23-24	05/16/81 - 05/24/81

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DR#	DS#	D#	FILES	TIME SPAN
DR00974	DS00974	D62652	1-2	05/24/81 - 06/01/81
		D62653	3-4	06/01/81 - 06/08/81
		D62654	5-6	06/09/81 - 06/16/81
		D62655	7-8	06/17/81 - 06/24/81
		D62656	9-10	06/24/81 - 07/03/81
		D62657	11-12	07/03/81 - 07/11/81
		D62658	13-14	07/11/81 - 07/19/81
		D62659	15-16	07/19/81 - 07/27/81
		D62660	17-18	07/27/81 - 08/04/81
DR00975	DS00975	D62661	1-2	08/04/81 - 08/13/81
		D62662	3-4	08/13/81 - 08/21/81
		D62663	5-6	08/21/81 - 08/29/81
		D62664	7-8	08/29/81 - 09/06/81
		D62665	9-10	09/06/81 - 09/14/81
		D62666	11-12	09/14/81 - 09/22/81
		D65099	13-14	09/22/81 - 09/30/81
		D65100	15-16	09/30/81 - 10/08/81
		D65101	17-18	10/08/81 - 10/16/81
		D65102	19-20	10/16/81 - 10/24/81
		D65103	21-22	10/24/81 - 11/01/81
DR00976	DS00976	D65104	1-2	11/01/81 - 11/09/81
		D65105	3-4	11/10/81 - 11/18/81
		D65106	5-6	11/18/81 - 11/25/81
		D65107	7-8	11/26/81 - 12/04/81
		D65108	9-10	12/04/81 - 12/12/81
		D65109	11-12	12/12/81 - 12/20/81
DR00977	DS00977	D65110	1-2	12/20/81 - 12/28/81
		D65111	3-4	12/28/81 - 01/05/82
		D65112	5-6	01/05/82 - 01/13/82
		D65113	7-8	01/13/82 - 01/21/82
		D65114	9-10	01/22/82 - 01/29/82
		D65115	11-12	01/29/82 - 02/06/82
DR00978	DS00978	D65116	1-2	02/06/82 - 02/15/82
		D65117	3-4	02/15/82 - 02/22/82
		D65118	5-6	02/23/82 - 03/03/82
		D65119	7-8	03/03/82 - 03/11/82
		D65120	9-10	03/11/82 - 03/19/82
		D65121	11-12	03/20/82 - 03/27/82
DR00979	DS00979	D65122	1-2	03/28/82 - 04/05/82
		D65123	3-4	04/05/82 - 04/13/82
		D65124	5-6	04/13/82 - 04/20/82
		D65125	7-8	04/21/82 - 04/29/82
		D65126	9-10	04/29/82 - 05/07/82
		D65127	11-12	05/07/82 - 05/15/82
		D65128	13-14	05/15/82 - 05/23/82
		D65129	15-16	05/23/82 - 05/31/82
		D65130	17-18	05/31/82 - 06/08/82

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DR#	DS#	D#	FILES	TIME SPAN
DR00980	DS00980	D65131	1-2	06/08/82 - 06/16/82
		D65132	3-4	06/16/82 - 06/23/82
		D65133	5-6	06/24/82 - 07/02/82
		D65134	7-8	07/03/82 - 07/09/82
		D65135	9-10	07/10/82 - 07/18/82
		D65136	11-12	07/19/82 - 07/26/82
		D65137	13-14	07/26/82 - 08/05/82
		D65138	15-16	08/05/82 - 08/12/82
		D65139	17-18	08/13/82 - 08/20/82
		D65140	19-20	08/21/82 - 08/29/82
		D65141	21-22	08/29/82 - 09/05/82
DR00981	DS00981	D65142	1-2	09/06/82 - 09/13/82
		D65143	3-4	09/14/82 - 09/22/82
		D72300	5-6	09/23/82 - 09/30/82
		D72301	7-8	10/01/82 - 10/07/82
		D72302	9-10	10/08/82 - 10/16/82
		D72303	11-12	10/17/82 - 10/24/82
DR00982	DS00982	D72304	1-2	10/24/82 - 10/30/82
		D72305	3-4	11/01/82 - 11/07/82
		D72306	5-6	11/08/82 - 11/15/82
		D72307	7-8	11/16/82 - 11/23/82
		D72308	9-10	11/24/82 - 11/30/82
		D72309	11-12	12/01/82 - 12/11/82
DR00983	DS00983	D72310	1-2	12/11/82 - 12/18/82
		D72311	3-4	12/19/82 - 12/26/82
		D72312	5-6	12/27/82 - 01/03/83
		D72313	7-8	01/04/83 - 01/11/83
		D72314	9-10	01/12/83 - 01/20/83
		D72315	11-12	01/21/83 - 01/28/83
DR00984	DS00984	D72316	1-2	01/28/83 - 02/04/83
		D72317	3-4	02/05/83 - 02/12/83
		D72318	5-6	02/13/83 - 02/20/83
		D72319	7-8	02/21/83 - 02/28/83
		D72320	9-10	03/01/83 - 03/07/83
		D72321	11-12	03/08/83 - 03/17/83
DR00985	DS00985	D72322	1-2	03/17/83 - 03/24/83
		D72323	3-4	03/25/83 - 04/01/83
		D72324	5-6	04/20/83 - 04/09/83
		D72327	7-8	04/10/83 - 04/17/83
		D72328	9-10	04/18/83 - 04/25/83
		D72329	11-12	04/26/83 - 05/04/83

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DR#	DS#	D#	FILES	TIME SPAN
DR00991	DS00991	D72330	1-2	05/04/83 - 05/11/83
		D72331	3-4	05/12/83 - 05/19/83
		D72332	5-6	05/20/83 - 05/27/83
		D72333	7-8	05/28/83 - 06/04/83
		D72334	9-10	06/05/83 - 06/12/83
		D72335	11-12	06/13/83 - 06/20/83
DR00992	DS00992	D72342	1-2	06/20/83 - 06/27/83
		D72343	3-4	06/28/83 - 07/04/83
		D72344	5-6	07/05/83 - 07/12/83
		D72345	7-8	07/13/83 - 07/20/83
		D72346	9-10	07/21/83 - 07/29/83
		D75245	11-12	07/30/83 - 08/07/83
DR00993	DS00993	D72336	1-2	08/07/83 - 08/14/83
		D72337	3-4	08/15/83 - 08/22/83
		D72338	5-6	08/23/83 - 08/30/83
		D72339	7-8	09/01/83 - 09/07/83
		D72340	9-10	09/08/83 - 09/15/83
		D72341	11-12	09/16/83 - 09/25/83
DR00994	DS00994	D75246	1-2	09/25/83 - 10/03/83
		D75247	3-4	10/03/83 - 10/11/83
		D75248	5-6	10/11/83 - 10/19/83
		D75249	7-8	10/19/83 - 10/27/83
		D75250	9-10	10/27/83 - 11/04/83
		D75251	11-12	11/04/83 - 11/12/83
DR00995	DS00995	D75252	1-2	11/12/83 - 11/20/83
		D75253	3-4	11/20/83 - 11/28/83
		D75254	5-6	11/28/83 - 12/07/83
		D75255	7-8	12/07/83 - 12/15/83
		D75256	9-10	12/15/83 - 12/23/83
		D75257	11-12	12/23/83 - 12/31/83
DR00996	DS00996	D75258	1-2	12/31/83 - 01/08/84
		D75259	3-4	01/08/84 - 01/16/84
		D75260	5-6	01/16/84 - 01/24/84
		D75261	7-8	01/24/84 - 02/01/84
		D75262	9-10	02/01/84 - 02/09/84
		D75263	11-12	02/09/84 - 02/17/84
DR00997	DS00997	D75264	1-2	02/17/84 - 02/25/84
		D75265	3-4	02/25/84 - 03/05/84
		D75266	5-6	03/05/84 - 03/13/84
		D75267	7-8	03/13/84 - 03/21/84
		D75268	9-10	03/21/84 - 03/29/84
		D75269	11-12	03/29/84 - 04/06/84

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DR#	DS#	D#	FILES	TIME SPAN
DR00998	DS00998	D75270	1-2	04/06/84 - 04/10/84
		D75271	3-4	04/14/84 - 04/22/84
		D75272	5-6	04/24/84 - 05/01/84
		D75273	7-8	05/01/84 - 05/09/84
		D75274	9-10	05/09/84 - 05/17/84
		D75275	11-12	05/19/84 - 05/24/84
DR00999	DS00999	D75276	1-2	05/24/84 - 06/01/84
		D75277	3-4	06/02/84 - 06/09/84
		D75278	5-6	06/09/84 - 06/17/84
		D75279	7-8	06/16/84 - 06/25/84
		D75280	9-10	06/25/84 - 07/03/84
		D75281	11-12	07/03/84 - 07/12/84
DR01000	DS01000	D75282	1-2	07/12/84 - 07/19/84
		D75283	3-4	07/20/84 - 07/28/84
		D75284	5-6	07/28/84 - 08/06/84
		D75285	7-8	08/06/84 - 08/14/84
		D75286	9-10	08/14/84 - 08/21/84
		D75287	11-12	08/22/84 - 08/30/84
DR01001	DS01001	D75288	1-2	08/30/84 - 09/07/84
		D75289	3-4	09/07/84 - 09/14/84
		D78625	5-6	09/15/84 - 09/22/84
		D78626	7-8	09/23/84 - 09/30/84
		D78627	9-10	10/01/84 - 10/08/84
		D78628	11-12	10/09/84 - 10/17/84
DR01002	DS01002	D78629	1-2	10/17/84 - 10/24/84
		D78630	3-4	10/25/84 - 11/01/84
		D78631	5-6	11/02/84 - 11/09/84
		D78632	7-8	11/10/84 - 11/17/84
		D78633	9-10	11/18/84 - 11/27/84
		D78634	11-12	11/28/84 - 12/06/84
DR01003	DS01003	D78635	1-2	12/06/84 - 12/13/84
		D78636	3-4	12/14/84 - 12/21/84
		D78637	5-6	12/22/84 - 12/30/84
		D78638	7-8	01/01/85 - 01/08/85
		D78639	9-10	01/09/85 - 01/17/85
		D78640	11-12	01/18/85 - 01/23/85
DR01004	DS01004	D78641	1-2	01/23/85 - 01/30/85
		D78642	3-4	01/3/185 - 02/07/85
		D78643	5-6	02/08/85 - 02/17/85
		D78644	7-8	02/18/85 - 02/26/85
		D78645	9-10	02/27/85 - 03/09/85
		D78646	11-12	03/10/85 - 03/17/85

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DR#	DS#	D#	FILES	TIME SPAN
DR01005	DS01005	D78647	1-2	03/17/85 - 03/23/85
		D78648	3-4	03/24/85 - 04/01/85
		D78649	5-6	04/02/85 - 04/08/85
		D78650	7-8	04/09/85 - 04/15/85
		D78651	9-10	04/16/85 - 04/20/85
		D78652	11-12	04/21/85 - 04/27/85
DR01006	DS01006	D78653	1-2	04/27/85 - 05/04/85
		D78654	3-4	05/05/85 - 05/12/85
		D78655	5-6	05/13/85 - 05/20/85
		D78656	7-8	05/21/85 - 05/28/85
		D78657	9-10	05/29/85 - 06/07/85
		D78658	11-12	06/08/85 - 06/15/85
DR01007	DS01007	D78659	1-2	06/15/85 - 06/22/85
		D78660	3-4	06/23/85 - 07/02/85
		D78661	5-6	07/03/85 - 07/11/85
		D78662	7-8	07/12/85 - 07/23/85
		D78663	9-10	07/24/85 - 08/10/85
		D78664	11-12	08/11/85 - 08/30/85
DR01008	DS01008	D78665	1-2	08/30/85 - 09/04/85
		D78666	3-4	09/05/85 - 09/09/85
		D78667	5-6	09/10/85 - 09/14/85
		D78668	7-8	09/15/85 - 09/17/85
		D78669	9-10	09/18/85 - 09/19/85
		D79884	11-12	09/20/85 - 09/21/85
DR01009	DS01009	D79885	1-2	09/21/85 - 09/28/85
		D79886	3-4	09/29/85 - 10/05/85
		D79887	5-6	10/06/85 - 10/13/85
		D79888	7-8	10/14/85 - 10/20/85
		D79889	9-10	10/21/85 - 10/30/85
		D79890	11-12	10/31/85 - 11/09/85
DR01010	DS01010	D79891	1-2	11/09/85 - 11/16/85
		D79892	3-4	11/17/85 - 11/24/85
		D79893	5-6	11/25/85 - 12/02/85
		D79894	7-8	12/03/85 - 12/10/85
		D79895	9-10	12/11/85 - 12/18/85
		D79896	11-12	12/19/85 - 12/27/85
		D79897	13-14	12/28/85 - 01/05/86
DR01011	DS01011	D79898	1-2	01/05/86 - 01/12/86
		D79899	3-4	01/13/86 - 01/20/86
		D79900	5-6	01/21/86 - 01/28/86
		D79901	7-8	01/29/86 - 02/07/86
		D79902	9-10	02/08/86 - 02/16/86
		D79903	11-12	02/17/86 - 02/23/86

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DR#	DS#	D#	FILES	TIME SPAN
DR01012	DS01012	D79904	1-2	02/23/86 - 02/28/86
		D79905	3-4	03/01/86 - 03/07/86
		D79906	5-6	03/08/86 - 03/16/86
		D79907	7-8	03/17/86 - 03/26/86
		D79908	9-10	03/27/86 - 04/03/86
		D79909	11-12	04/04/86 - 04/12/86
DR01013	DS01013	D79910	1-2	04/12/86 - 04/19/86
		D79911	3-4	04/20/86 - 04/27/86
		D79912	5-6	04/28/86 - 05/05/86
		D79913	7-8	05/06/86 - 05/13/86
		D79914	9-10	05/14/86 - 05/21/86
		D79915	11-12	05/22/86 - 05/30/86
		D79916	13-14	06/01/86 - 06/09/86
DR01014	DS01014	D79917	1-2	06/09/86 - 06/18/68
		D79918	3-4	06/19/86 - 06/26/86
		D79919	5-6	06/27/86 - 07/04/86
		D79920	7-8	07/05/86 - 07/12/86
		D79921	9-10	07/13/86 - 07/20/86
		D79922	11-12	07/21/86 - 07/27/86
DR01015	DS01015	D79923	1-2	07/27/86 - 08/03/86
		D79924	3-4	08/04/86 - 08/11/86
		D79925	5-6	08/12/86 - 08/20/86
		D79926	7-8	08/21/86 - 08/30/86
		D79927	9-10	09/01/86 - 09/08/86
		D79928	11-12	09/09/86 - 09/16/86
DR05968	DS05968	D82510	1-8	09/15/86 - 10/17/86
		D82511	9-16	10/17/86 - 11/18/86
DR05969	DS05969	D82512	1-8	11/18/86 - 12/21/86 (a)
		D82513	9-16	12/22/86 - 01/23/87
DR05970	DS05970	D82514	1-8	01/23/87 - 02/24/87
		D82515	9-16	02/24/87 - 03/29/87 (b)
DR05971	DS05971	D82516	1-8	03/30/87 - 05/01/87
		D82517	9-16	05/01/87 - 06/01/87
DR05972	DS05972	D82518	1-8	06/01/87 - 07/04/87
		D82519	9-16	07/05/87 - 08/07/87
DR05973	DS05973	D82520	1-8	08/07/87 - 09/07/87
		D82521	9-16	09/08/87 - 10/09/87
DR05984	DS05984	D82846	1-8	10/09/87 - 11/12/87
		D82847	9-16	11/12/87 - 12/14/87

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DR#	DS#	D#	FILES	TIME SPAN
DR05985	DS05985	D82848	1-8	12/14/87 - 01/15/88
		D82849	9-16	01/15/88 - 02/18/88
DR05986	DS05986	D82850	1-8	02/18/88 - 03/22/88
		D82851	9-16	03/22/88 - 04/22/88
DR05987	DS05987	D82852	1-8	04/22/88 - 05/26/88
		D82853	9-16	05/26/88 - 06/28/88
DR05988	DS05988	D82854	1-8	06/28/88 - 07/29/88
		D82855	9-16	07/30/88 - 08/31/88
DR05989	DS05989	D82856	1-8	08/31/88 - 10/04/88
		D82857	9-16	10/04/88 - 11/05/88
DR06079	DS06079	D85460	1-8	11/05/88 - 12/07/88
		D85461	9-16	12/07/88 - 01/10/89
DR06080	DS06080	D85462	1-8	01/10/89 - 02/11/89
		D85463	9-16	02/11/89 - 03/15/89
DR06081	DS06081	D85464	1-8	03/15/89 - 04/17/89
DR06082	DS06082	D85465	1-8	04/17/89 - 05/20/89
DR06083	DS06083	D85466	1-8	05/20/89 - 06/20/89
		D85467	9-16	06/20/89 - 07/23/89
DR06084	DS06084	D85468	1-8	07/23/89 - 08/25/89
		D85469	9-16	08/26/89 - 09/26/89
DR06085	DS06085	D85470	1-8	09/26/89 - 10/28/89
DR06112	DS06112	D96115	1-8	10/28/89 - 12/01/89
DR06113	DS06113	D96116	1-8	12/01/89 - 01/02/90
		D96117	9-16	01/02/90 - 02/02/90
DR06114	DS06114	D96118	1-8	02/02/90 - 03/08/90
DR06115	DS06115	D96119	1-8	03/08/90 - 04/10/90
		D96120	9-16	04/10/90 - 05/11/90
DR06116	DS06116	D96121	1-8	05/11/90 - 06/14/90
		D96122	9-16	06/14/90 - 07/17/90
DR06117	DS06117	D96123	1-8	07/18/90 - 08/18/90
		D96124	9-16	08/18/90 - 09/18/90
DR06118	DS06118	D96125	1-8	09/18/90 - 10/23/90
		D107573	9-16	10/23/90 - 11/24/90

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DR#	DS#	D#	FILES	TIME SPAN
DR006122	DS006122	D107574	1-08	11/24/90 - 12/26/90
		D107575	9-16	12/26/90 - 01/29/91
DR006123	DS006123	D107576	1-08	01/29/91 - 03/02/91
		D107577	9-16	03/02/91 - 04/03/91
DR006124	DS006124	D107578	1-08	04/03/91 - 05/06/91
		D107579	9-16	05/06/91 - 06/08/91
DR006125	DS006125	D107580	1-08	06/09/91 - 07/10/91
		D107581	9-16	07/10/91 - 08/11/91
DR006126	DS006126	D107582	1-08	08/12/91 - 09/14/91
		D107583	9-16	09/14/91 - 10/16/91
DR006198	DS006198	D108108	1-08	10/16/91 - 11/16/91
		D108109	9-16	11/16/91 - 12/20/91
DR006199	DS006199	D108110	1-08	12/20/91 - 01/21/92
		D108111	9-16	01/22/92 - 02/22/92
DR006200	DS006200	D108112	1-08	02/22/92 - 03/27/92
		D108113	9-16	03/27/92 - 04/29/92
DR006201	DS006201	D108115	1-08	05/30/92 - 07/02/92
		D108114	9-16	04/29/92 - 05/30/92
DR006202	DS006202	D108116	1-08	07/02/92 - 08/05/92
		D108117	9-16	08/05/92 - 09/05/92
DR006203	DS006203	D108118	1-08	09/05/92 - 10/07/92
		D108119	9-16	10/07/92 - 11/10/92
DR006204	DS006204	D108120	1-08	11/10/92 - 12/12/92
		D108121	9-16	12/12/92 - 01/11/93
DR006205	DS006205	D108122	1-08	01/13/93 - 02/14/93
		D108123	9-16	02/14/93 - 03/19/93
DR006206	DS006206	D108124	1-08	03/19/93 - 04/20/93
		D108125	9-16	04/20/93 - 05/22/93
DR006207	DS006207	D108126	1-08	05/22/93 - 06/25/93
		D108127	9-16	06/25/93 - 07/26/93
DR006208	DS006208	D108128	1-08	07/27/93 - 08/27/93
		D108129	9-16	08/27/93 - 09/30/93
DR006209	DS006209	D108130	1-08	10/01/93 - 11/02/93
		D108131	9-16	11/02/93 - 12/03/93

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DR#	DS#	D#	FILES	TIME SPAN
DR006210	DS006210	D108132	1-08	12/03/93 - 01/06/94
		D108133	9-16	01/06/94 - 02/07/94
DR006211	DS006211	D108134	1-08	02/07/94 - 03/11/94
		D108135	9-16	03/11/94 - 04/13/94
DR006212	DS006212	D108136	1-08	04/13/94 - 05/16/94
		D108137	9-16	05/16/94 - 06/16/94

(a) DD082512: 2 errors, records 161 & 163, File 1.
(b) DD082515: 1 error, record 380, File 1.

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DR#	DS#	D#	FILES	TIME SPAN
DR006242	DS006242	D108636	1-08	06/16/94 - 07/19/94
		D108637	9-16	07/19/94 - 08/21/94
DR006243	DS006243	D108638	1-08	08/21/94 - 09/18/94
		D108639	9-16	09/18/94 - 10/23/94
DR006244	DS006244	D108640	1-08	10/23/94 - 11/26/94
		D108641	9-16	11/26/94 - 12/27/94
DR006245	DS006245	D108642	1-08	12/27/94 - 01/28/95
		D108643	9-16	01/28/95 - 03/02/95
DR006246	DS006246	D108644	1-08	03/02/95 - 04/03/95
		D108645	9-16	04/04/95 - 05/05/95
DR006247	DS006247	D108646	1-08	05/05/95 - 06/07/95
		D108647	9-16	06/07/95 - 07/09/95
DR006248	DS006248	D108648	1-08	07/09/95 - 08/10/95
		D108649	9-16	08/10/95 - 09/11/95
DR006249	DS006249	D108650	1-08	09/11/95 - 10/14/95

REQ. AGENT	RAND NO.	ACQ. AGENT
CAW	RC7552	DVR
DEW	RD2047	JIV
GLS	V0130	HKH
DEW	V0189	HKH
GLS	V0244	HKH
SAR	V0294	HKH

IMP-J

SECTORED RATE AND PHA (JOST TAPES)

5.46 MINUTE AVG. COUNT RATES

73-078A-07A

73-078A-07B

This data set catalog consists of 583 Sectored Rate and PHA (JOST) magnetic tapes and 19 5.46 Minute Avg. Count Rates magnetic tapes. The first 88 (JOST) tapes and the first 3 5.46 Min Avg. Count Rates tapes are 800 BPI, 7 track and contain Binary data. All other data tapes are 1600 BPI, 9track, and contain Binary data. The 07A tapes have 2 files of data and the 07B tapes have 60 files of data. These tapes were created on an IBM 360 computer. The tape format along with a list of D and C numbers with their time spans are given on the following pages:

* Documentation to be sent to requesters is B23906-00A for 73-078A-07A and 07B.

IMP-J Sectored Rate and PHA (JOST) Tapes 73-078A-07A

D#	C#	TIME SPAN
D-28949	C-19249	10/30/73 - 11/03/73
D-28944	C-19243	11/03/73 - 11/11/73
D-28939	C-19238	11/11/73 - 11/19/73
D-28947	C-19246	11/19/73 - 11/27/73
D-28923	C-19222	11/27/73 - 12/06/73
D-28924	C-19223	12/06/73 - 12/14/73
D-28932	C-19231	12/14/73 - 12/22/73
D-28933	C-19232	12/22/73 - 12/31/73
D-28931	C-19230	12/31/73 - 01/08/74
D-28951	C-19251	01/08/74 - 01/16/74
D-28952	C-19252	01/16/74 - 01/24/74
D-28942	C-19241	01/24/74 - 02/01/74
D-28938	C-19237	02/01/74 - 02/09/74
D-28922	C-19221	02/09/74 - 02/17/74
D-28959	C-19259	02/17/74 - 02/25/74
D-28948	C-19248	02/25/74 - 03/05/74
D-28940	C-19239	03/05/74 - 03/12/74
D-28950	C-19250	03/12/74 - 03/21/74
D-28945	C-19244	03/21/74 - 03/29/74
D-28928	C-19227	03/29/74 - 04/06/74
D-28927	C-19226	04/06/74 - 04/14/74
D-28930	C-19229	04/14/74 - 04/23/74
D-28934	C-19233	04/23/74 - 05/01/74
D-28926	C-19225	05/01/74 - 05/09/74
D-28925	C-19224	05/09/74 - 05/17/74
D-28937	C-19236	05/17/74 - 05/25/74
D-28936	C-19235	05/25/74 - 06/03/74
D-28935	C-19234	06/03/74 - 06/10/74
D-28921	C-19220	06/10/74 - 06/18/74
D-28958	C-19258	06/18/74 - 06/26/74
D-28957	C-19257	06/26/74 - 07/04/74
D-28956	C-19256	07/04/74 - 07/12/74
D-28955	C-19255	07/12/74 - 07/20/74
D-28920	C-19219	07/20/74 - 07/29/74
D-28919	C-19218	07/29/74 - 08/05/74
D-28929	C-19228	08/05/74 - 08/14/74
D-28946	C-19245	08/14/74 - 08/22/74
D-28954	C-19254	08/22/74 - 08/30/74
D-28953	C-19253	08/30/74 - 09/07/74
D-28943	C-19242	09/07/74 - 09/15/74
D-28918	C-19217	09/15/74 - 09/23/74
D-28941	C-19240	09/23/74 - 10/01/74
D-31127	C-19964	10/01/74 - 10/08/74
D-31128	C-19965	10/08/74 - 10/16/74
D-31129	C-19966	10/16/74 - 10/25/74
D-31130	C-19967	10/25/74 - 11/02/74
D-31131	C-19968	11/02/74 - 11/06/74

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D#	C#	TIME SPAN
D-31132	C-19969	11/10/74 - 11/18/74
D-31133	C-19970	11/18/74 - 11/26/74
D-31134	C-19971	11/26/74 - 12/04/74
D-31135	C-19972	12/04/74 - 12/12/74
D-31136	C-19973	12/12/74 - 12/20/74
D-31137	C-19974	12/20/74 - 12/24/74
D-31138	C-19975	12/28/74 - 01/06/75
D-31139	C-19976	01/06/75 - 01/13/75
D-31140	C-19977	01/13/75 - 01/21/75
D-31141	C-19978	01/21/75 - 01/29/75
D-31142	C-19979	01/29/75 - 02/06/75
D-31143	C-19980	02/06/75 - 02/14/75
D-31144	C-19981	02/14/75 - 02/22/75
D-31145	C-19982	02/22/75 - 03/02/75
D-31146	C-19983	03/02/75 - 03/10/75
D-31147	C-19984	03/10/75 - 03/18/75
D-31148	C-19985	03/18/75 - 03/26/75
D-31149	C-19986	03/26/75 - 04/03/75
D-31150	C-19987	04/03/75 - 04/11/75
D-31151	C-19988	04/11/75 - 04/19/75
D-31152	C-19989	04/19/75 - 04/27/75
D-31153	C-19990	04/27/75 - 05/05/75
D-31154	C-19991	05/05/75 - 05/13/75
D-31155	C-19992	05/13/75 - 05/21/75
D-31156	C-20031	05/21/75 - 05/29/75
D-31157	C-19993	05/29/75 - 06/06/75
D-31158	C-19994	06/06/75 - 06/14/75
D-31159	C-19995	06/14/75 - 06/22/75
D-31160	C-19996	06/22/75 - 06/30/75
D-31161	C-20002	06/30/75 - 07/04/75
D-31162	C-20003	07/08/75 - 07/16/75
D-31163	C-20004	07/16/75 - 07/24/75
D-31164	C-20005	07/24/75 - 07/31/75
D-31165	C-20006	07/31/75 - 08/09/75
D-31166	C-20007	08/09/75 - 08/16/75
D-31167	C-20008	08/16/75 - 08/24/75
D-31168	C-20009	08/24/75 - 09/01/75
D-31169	C-20010	09/01/75 - 09/09/75
D-31170	C-20011	09/09/75 - 09/17/75
D-31171	C-20012	09/17/75 - 09/25/75
D-31172	C-20013	09/25/75 - 10/03/75
D-33513		10/03/75 - 10/13/75
D-33514		10/11/75 - 10/19/75
D-33515		10/19/75 - 10/27/75
D-33516		10/27/75 - 11/04/75
D-33517		11/04/75 - 11/12/75
D-33518		11/12/75 - 11/20/75

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D#	C#	TIME SPAN
D-33519		11/20/75 - 11/28/75
D-33520		11/28/75 - 12/06/75
D-33521		12/06/75 - 12/13/75
D-33522		12/14/75 - 12/22/75
D-33523		12/22/75 - 12/30/75
D-33524		12/30/75 - 01/06/76
D-33525	C-20572	01/07/76 - 01/16/76
D-33526		01/14/76 - 01/23/76
D-33527		01/23/76 - 01/31/76
D-33528		01/31/76 - 02/08/76
D-33529		02/08/76 - 02/15/76
D-33530		02/15/76 - 02/23/76
D-33531		02/23/76 - 03/02/76
D-33532		03/02/76 - 03/10/76
D-33533		03/10/76 - 03/18/76
D-33534		03/18/76 - 03/26/76
D-33535	C-20587	03/26/76 - 04/03/76
D-33536		04/03/76 - 04/11/76
D-33537		04/12/76 - 04/19/76
D-33538		04/19/76 - 04/27/76
D-33539		04/27/76 - 05/01/76
D-33540		05/06/76 - 05/14/76
D-33541		05/14/76 - 05/21/76
D-33542		05/21/76 - 05/29/76
D-33543		05/30/76 - 06/03/76
D-33544		06/07/76 - 06/15/76
D-33545	C-20588	06/15/76 - 06/22/76
D-33546	C-20589	06/23/76 - 07/01/76
D-33547		07/01/76 - 07/09/76
D-33548		07/09/76 - 07/17/76
D-33549		07/17/76 - 07/25/76
D-33550		07/25/76 - 08/02/76
D-33551		08/02/76 - 08/10/76
D-33552		08/10/76 - 08/18/76
D-33553		08/18/76 - 08/26/76
D-33554		08/26/76 - 09/03/76
D-33555		09/03/76 - 09/11/76
D-33556		09/11/76 - 09/19/76
D-33557	C-20590	09/19/76 - 09/27/76
D-37897	C-21081	09/28/76 - 10/06/76
D-37898	C-21082	10/06/76 - 10/10/76
D-37899	C-21083	10/14/76 - 10/22/76
D-37900	C-21084	10/22/76 - 10/30/76
D-37901	C-21085	10/31/76 - 11/08/76
D-37902	C-21086	11/08/76 - 11/16/76
D-37903	C-21087	11/16/76 - 11/24/76
D-37904	C-21088	11/24/76 - 12/02/76
D-37905	C-21089	12/02/76 - 12/10/76

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D#	C#	TIME SPAN
D-37906	C-21090	12/10/76 - 12/18/76
D-37907	C-21091	12/18/76 - 12/26/76
D-37908	C-21092	12/26/76 - 01/02/77
D-37909	C-21093	01/02/77 - 01/10/77
D-37910	C-21094	01/10/77 - 01/18/77
D-37911	C-21095	01/18/77 - 01/26/77
D-37912	C-21096	01/26/77 - 02/03/77
D-37913	C-21097	02/03/77 - 02/11/77
D-37914	C-21098	02/11/77 - 02/19/77
D-37915	C-21099	02/20/77 - 02/28/77
D-37916	C-21100	02/28/77 - 03/08/77
D-37917	C-21101	03/08/77 - 03/16/77
D-37918	C-21102	03/16/77 - 03/24/77
D-37919	C-21103	03/24/77 - 04/01/77
D-37920	C-21104	04/01/77 - 04/09/77
D-37921	C-21105	04/09/77 - 04/17/77
D-37922	C-21106	04/17/77 - 04/25/77
D-37923	C-21107	04/25/77 - 05/03/77
D-37924	C-21108	05/03/77 - 05/11/77
D-37925	C-21109	05/11/77 - 05/19/77
D-37926	C-21110	05/19/77 - 05/27/77
D-37927	C-21111	05/27/77 - 06/04/77
D-37928	C-21112	06/05/77 - 06/13/77
D-37929	C-21113	06/13/77 - 06/21/77
D-37930	C-21114	06/21/77 - 06/29/77
D-37931	C-21115	06/29/77 - 07/07/77
D-37932	C-21116	07/07/77 - 07/14/77
D-37933	C-21117	07/15/77 - 07/23/77
D-37934	C-21118	07/23/77 - 07/31/77
D-37935	C-21119	07/31/77 - 08/08/77
D-37936	C-21120	08/08/77 - 08/16/77
D-37937	C-21121	08/16/77 - 08/24/77
D-37938	C-21122	08/24/77 - 09/01/77
D-37939	C-21123	09/01/77 - 09/09/77
D-37940	C-21124	09/11/77 - 09/18/77
D-37941	C-21125	09/18/77 - 09/26/77
D-43405		09/26/77 - 10/01/77
D-43406		10/04/77 - 10/12/77
D-43407		10/12/77 - 10/20/77
D-43408		10/20/77 - 10/28/77
D-43409		10/28/77 - 11/05/77
D-43410		11/05/77 - 11/12/77
D-43411		11/13/77 - 11/21/77
D-43412		11/21/77 - 11/29/77
D-43413		11/29/77 - 12/07/77
D-43414		12/07/77 - 12/15/77
D-43415		12/15/77 - 12/23/77
D-43416		12/23/77 - 01/01/78

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D#	C#	TIME SPAN
D-43417		01/01/78 - 01/09/78
D-43418		01/09/78 - 01/17/78
D-43419		01/17/78 - 01/25/78
D-43420		01/25/78 - 02/02/78
D-43421		02/02/78 - 02/10/78
D-43422		02/10/78 - 02/18/78
D-43423		02/18/78 - 02/26/78
D-43424	C-22190	02/26/78 - 03/06/78
D-43425		03/06/78 - 03/14/78
D-43426		03/14/78 - 03/22/78
D-43427		03/22/78 - 03/30/78
D-43428		03/30/78 - 04/07/78
D-43429		04/07/78 - 04/16/78
D-43430		04/16/78 - 04/24/78
D-43431		04/24/78 - 05/02/78
D-43432		05/02/78 - 05/10/78
D-43433		05/10/78 - 05/18/78
D-43434	C-22191	05/18/78 - 05/26/78
D-43435		05/26/78 - 06/03/78
D-43436		06/03/78 - 06/11/78
D-43437		06/11/78 - 06/19/78
D-43438		06/19/78 - 06/27/78
D-43439		06/27/78 - 07/05/78
D-43440		07/05/78 - 07/13/78
D-43441		07/13/78 - 07/21/78
D-43442		07/21/78 - 07/30/78
D-43443		07/30/78 - 08/07/78
D-43444	C-22192	08/07/78 - 08/15/78
D-43445		08/15/78 - 08/23/78
D-43446		08/23/78 - 08/31/78
D-43447		08/31/78 - 09/08/78
D-43448		09/08/78 - 09/16/78
D-43449		09/16/78 - 09/24/78
D-47330		09/24/78 - 10/02/78
D-47331		10/02/78 - 10/10/78
D-47332		10/10/78 - 10/18/78
D-47333		10/18/78 - 10/26/78
D-47334		10/26/78 - 11/03/78
D-47335		11/03/78 - 11/11/78
D-47336		11/12/78 - 11/20/78
D-47337		11/20/78 - 11/28/78
D-47338		11/28/78 - 12/06/78
D-47339	C-22193	12/06/78 - 12/14/78
D-47340		12/14/78 - 12/23/78
D-47341		12/23/78 - 12/30/78
D-47342		12/30/78 - 01/08/79
D-47343		01/08/79 - 01/15/79
D-47344		01/15/79 - 01/23/79

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D#	C#	TIME SPAN
D-47345		01/23/79 - 01/31/79
D-47346		01/31/79 - 02/08/79
D-47347		02/08/79 - 02/16/79
D-47348		02/16/79 - 02/25/79
D-47349		02/25/79 - 03/05/79
D-47350		03/05/79 - 03/13/79
D-47351		03/13/79 - 03/21/79
D-47352		03/21/79 - 03/29/79
D-47353		03/30/79 - 04/07/79
D-47354		04/07/79 - 04/15/79
D-47355		04/15/79 - 04/23/79
D-47356		04/23/79 - 05/01/79
D-47357		05/01/79 - 05/08/79
D-47358		05/09/79 - 05/17/79
D-47359	C-22195	05/17/79 - 05/24/79
D-47360		05/24/79 - 06/01/79
D-47361		06/02/79 - 06/10/79
D-47362		06/10/79 - 06/18/79
D-47363		06/18/79 - 06/26/79
D-47364		06/26/79 - 07/04/79
D-47365		07/04/79 - 07/13/79
D-47366		07/13/79 - 07/21/79
D-47367		07/21/79 - 07/29/79
D-47368		07/29/79 - 08/06/79
D-47369	C-22196	08/06/79 - 08/14/79
D-47370		08/14/79 - 08/22/79
D-47371		08/22/79 - 08/30/79
D-47372		08/30/79 - 09/07/79
D-47373		09/07/79 - 09/15/79
D-47374		09/15/79 - 09/23/79
D-56957		09/23/79 - 10/01/79
D-56958		10/01/79 - 10/09/79
D-56959		10/09/79 - 10/17/79
D-56960		10/18/79 - 10/26/79
D-56961		10/26/79 - 11/03/79
D-56962		11/03/79 - 11/11/79
D-56963		11/11/79 - 11/19/79
D-56964		11/19/79 - 11/27/79
D-56965		11/27/79 - 12/05/79
D-56966	C-23130	12/05/79 - 12/13/79
D-56967		12/13/79 - 12/21/79
D-56968		12/21/79 - 12/28/79
D-56969		12/29/79 - 01/06/80
D-56970		01/06/80 - 01/14/80
D-56971		01/14/80 - 01/22/80
D-56972		01/22/80 - 01/31/80
D-56973		01/31/80 - 02/08/80
D-56974		02/08/80 - 02/16/80

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D#	C#	TIME SPAN
D-56975		02/16/80 - 02/24/80
D-56976		02/24/80 - 03/03/80
D-56977	C-23131	03/03/80 - 03/11/80
D-56978		03/11/80 - 03/19/80
D-56979		03/19/80 - 03/27/80
D-56980		03/27/80 - 04/04/80
D-56981		04/04/80 - 04/12/80
D-56982		04/12/80 - 04/20/80
D-56983		04/20/80 - 04/28/80
D-56984		04/28/80 - 05/07/80
D-56985		05/07/80 - 05/15/80
D-56986		05/15/80 - 05/23/80
D-56987		05/23/80 - 05/31/80
D-56988		05/31/80 - 06/09/80
D-56989		06/09/80 - 06/17/80
D-56990		06/17/80 - 06/25/80
D-56991		06/25/80 - 07/02/80
D-56992		07/02/80 - 07/11/80
D-56993		07/11/80 - 07/19/80
D-56994		07/19/80 - 07/27/80
D-56995		07/27/80 - 08/04/80
D-56996		08/04/80 - 08/12/80
D-56997		08/12/80 - 08/20/80
D-56998		08/20/80 - 08/28/80
D-56999		08/28/80 - 09/05/80
D-57000		09/06/80 - 09/13/80
D-57001		09/14/80 - 09/22/80
D-62622	C-23951	09/22/80 - 09/30/80
D-62623		09/30/80 - 10/08/80
D-62624		10/08/80 - 10/16/80
D-62625		10/16/80 - 10/24/80
D-62626		10/24/80 - 11/01/80
D-62627		11/01/80 - 11/09/80
D-62628		11/09/80 - 11/17/80
D-62629		11/17/80 - 11/25/80
D-62630		11/25/80 - 12/03/80
D-62631	C-23952	12/03/80 - 12/12/80
D-62632		12/12/80 - 12/20/80
D-62633		12/20/80 - 12/29/80
D-62634		12/29/80 - 01/06/81
D-62635		01/06/81 - 01/14/81
D-62636		01/14/81 - 01/22/81
D-62637		01/22/81 - 01/30/81
D-62638		01/30/81 - 02/07/81
D-62639		02/07/81 - 02/15/81
D-62640		02/15/81 - 02/23/81
D-62641	C-23953	02/23/81 - 03/03/81
D-62642		03/03/81 - 03/10/81

IMP-J 73-078A-07A

D#	C#	TIME SPAN
D-62643		03/10/81 - 03/19/81
D-62644		03/19/81 - 03/27/81
D-62645		03/27/81 - 04/04/81
D-62646		04/04/81 - 04/12/81
D-62647		04/12/81 - 04/21/81
D-62648		04/21/81 - 04/29/81
D-62649		04/29/81 - 05/07/81
D-62650		05/08/81 - 05/16/81
D-62651	C-23954	05/16/81 - 05/24/81
D-62652		05/24/81 - 06/01/81
D-62653		06/01/81 - 06/08/81
D-62654		06/09/81 - 06/16/81
D-62655		06/17/81 - 06/24/81
D-62656		06/24/81 - 07/03/81
D-62657		07/03/81 - 07/11/81
D-62658		07/11/81 - 07/19/81
D-62659		07/19/81 - 07/27/81
D-62660		07/27/81 - 08/04/81
D-62661	C-23955	08/04/81 - 08/13/81
D-62662		08/13/81 - 08/21/81
D-62663		08/21/81 - 08/29/81
D-62664		08/29/81 - 09/06/81
D-62665		09/06/81 - 09/14/81
D-62666		09/14/81 - 09/22/81
D-65099	C-24791	09/22/81 - 09/30/81
D-65100	C-24792	09/30/81 - 10/08/81
D-65101	C-24793	10/08/81 - 10/16/81
D-65102	C-24794	10/16/81 - 10/24/81
D-65013	C-24795	10/24/81 - 11/01/81
D-65104	C-24796	11/01/81 - 11/09/81
D-65105	C-24797	11/10/81 - 11/18/81
D-65106	C-24798	11/18/81 - 11/25/81
D-65107	C-24799	11/26/81 - 12/04/81
D-65108	C-24800	12/04/81 - 12/12/81
D-65109	C-24801	12/12/81 - 12/20/81
D-65110	C-24802	12/20/81 - 12/28/81
D-65111	C-24803	12/28/81 - 01/05/82
D-65112	C-24804	01/05/82 - 01/13/82
D-65113	C-24805	01/13/82 - 01/21/82
D-65114	C-24806	01/22/82 - 01/29/82
D-65115	C-24807	01/29/82 - 02/06/82
D-65116	C-24808	02/06/82 - 02/15/82
D-65117	C-24809	02/15/82 - 02/22/82
D-65118	C-24810	02/23/82 - 03/03/82
D-65119	C-24811	03/03/82 - 03/11/82
D-65120	C-24812	03/11/82 - 03/19/82
D-65121	C-24813	03/20/82 - 03/27/82
D-65122	C-24814	03/28/82 - 04/05/82

IMP-J 73-078A-07A

D#	C#	TIME SPAN
D-65123	C-24815	04/05/82 - 04/13/82
D-65124	C-24816	04/13/82 - 04/20/82
D-65125	C-24817	04/21/82 - 04/29/82
D-65126	C-24818	04/29/82 - 05/07/82
D-65127	C-24819	05/07/82 - 05/15/82
D-65128	C-24820	05/15/82 - 05/23/82
D-65129	C-24821	05/23/82 - 05/31/82
D-65130	C-24822	05/31/82 - 06/08/82
D-65131	C-24823	06/08/82 - 06/16/82
D-65132	C-24824	06/16/82 - 06/23/82
D-65133	C-24825	06/24/82 - 07/02/82
D-65134	C-24826	07/03/82 - 07/09/82
D-65135	C-24827	07/10/82 - 07/18/82
D-65136	C-24828	07/19/82 - 07/26/82
D-65137	C-24829	07/26/82 - 08/05/82
D-65138	C-24830	08/05/82 - 08/12/82
D-65139	C-24831	08/13/82 - 08/20/82
D-65140	C-24832	08/21/82 - 08/29/82
D-65141	C-24833	08/29/82 - 09/05/82
D-65142	C-24834	09/06/82 - 09/13/82
D-65143	C-24835	09/14/82 - 09/22/82

IMP-J 5.46 MIN. AVG. COUNT RATES 73-078A-07B

D#	C#	TIME SPAN
D-28960	C-18982	10/30/73 - 06/25/74
D-28961	C-18983	06/25/74 - 02/22/75
D-31173	C-20014	02/22/75 - 10/19/75
D-33512	C-20573	10/19/75 - 06/15/76
D-37942	C-21126	06/15/76 - 02/11/77
D-37943	C-21127	02/11/77 - 10/12/77
D-43450		10/12/77 - 06/11/78
D-47375		06/11/78 - 02/08/79
D-47376	C-22203	02/08/79 - 10/09/79
D-57002	C-23129	10/09/79 - 06/09/80
D-62667	C-23956	06/09/80 - 02/07/81
D-62668	C-23957	02/07/81 - 10/08/81
D-65144	C-24836	10/08/81 - 06/08/82
D-72325		06/08/82 - 02/04/83
D-72326		02/05/83 - 10/03/83
D-75290	C-26633	10/03/83 - 06/02/84
D-78670		06/02/84 - 01/31/85
D-78671		
D-79929		09/29/85 - 06/01/86

IMP-J

SECTORED RATE AND PHA (JOST TAPES)

73-078A-07A

THESE TAPES ARE ADDITIONAL DATA TO THE RESTORED DATASET. THEY HAVE NOT BEEN RESTORED. THE "D" TAPESS ARE 9-TRACK, 6250 BPI, WRITTEN IN BINARY. THE "C" TAPES ARE 3480 CARTRIDGES. THE D AND C NUMBERS ALONG WITH THEIR TIME SPANS ARE AS FOLLOWS:

D#	C#	FILES	TIME SPAN
D-107573	C-031692	8	10/23/90 - 11/24/90
D-107574	C-031693	8	11/24/90 - 12/26/90
D-107575	C-031694	8	12/26/90 - 01/29/91
D-107576	C-031695	8	01/29/91 - 03/02/91
D-107577	C-031696	8	03/02/91 - 04/03/91
D-107578	C-031697	8	04/03/91 - 05/06/91
D-107579	C-031698	8	05/06/91 - 06/08/91
D-107580	C-031699	8	06/09/91 - 07/10/91
D-107581	C-031700	8	07/10/91 - 08/11/91
D-107582	C-031701	8	08/12/91 - 09/14/91
D-107583	C-031702	8	09/14/91 - 10/16/91

IMP-J

5.46 MINUTE AVG. COUNT RATES

73-078A-07B

THIS TAPE IS ADDITIONAL DATA TO THE RESTORED DATASET. IT HAD NOT BEEN RESTORED. THE "D" TAPE IS 9-TRACK, 6250 BPI, WRITTEN IN BINARY. THE "C" TAPE IS 3480 CARTRIDGE. THE D AND C NUMBERS ALONG WITH THEIR TIME SPANS ARE AS FOLLOWS:

D#	C#	FILES	TIME SPAN
D-107584	C-031703	60	02/07/91 - 10/08/91

The University of Chicago
Enrico Fermi Institute
Laboratory for Astrophysics and Space Research

Eugene M. Murphy
933 E. 56TH Street
Chicago, ILL 60637
(312) - 702-7797
email: murphy@odysseus.uchicago.edu

April 11, 1995

Mr. Ralph Post
Code 633
National Space Sciences Data Center
Goddard Space Flight Center
Greenbelt, Maryland 20771

Dear Ralph:

The University of Chicago's annual submission of IMP-8 data is now being shipped to you.

The shipment is somewhat larger than our usual submission. It extends the coverage by 2 years and 9 months (up to June 1994) , rather than by the usual 1 year. It includes a total of 34 **magnetic tapes** recorded at 6250 BPI in 9-Tracks. We have secured these 2400-foot tapes from a source on the University's campus that gave them to us for free. The tapes are of 2 types:

1. The JOST tapes contain ALL the instrument data in time-order with overlap eliminated. As we have done for the last several years, we have again copied eight runs onto each tape rather than the usual two runs. So, a total of 30 tapes contain Production Run Numbers 1622 through 1861 and cover the time period October 16, 1991 through June 16, 1994

2. The RATE tape type contains only counting rate and coverage data in time-order with overlap eliminated. RATE-28, RATE-29, RATE-30 and RATE-31 (4 tapes) contain Production Run Numbers 1620 through 1859 and covers the time period of Oct. 12, 1991 through June 8, 1994.

This shipment does NOT include a **microfilmed** copy of the counting rate plots for Bartels Solar Rotations, as all our previous submissions have. We no longer plot the rates on the Cal/Comp plotter; and the University has shut down its microfilming department. We are still in contact with Joe King and are discussing submission of these plots in a '.gif' form.

Sincerely,

Gene

Eugene M. Murphy
Manager, Data Systems and Analysis

cc. C. Lopate, M. Munoz , R. Pyle, J. Simpson

The University of Chicago
Enrico Fermi Institute
Laboratory for Astrophysics and Space Research

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April 25, 1994

Mr. Ralph Post
Code 633
National Space Sciences Data Center
Goddard Space Flight Center
Greenbelt, Maryland 20771

Dear Ralph:

The University of Chicago's annual submission of IMP-8 data is now being shipped to you.

The shipment includes a total of 12 **magnetic tapes** recorded at 6250 BPI in 9-Tracks. The tapes are of 2 types:

1. The JOST tapes contain ALL the instrument data in time-order with overlap eliminated. As we have done for the last several years, we have again copied eight runs onto each tape rather than the usual two runs. So, a total of 11 tapes contain Production Run Numbers 1534 through 1621 and cover the time period October 23, 1990 through Oct. 16, 1991

2. The RATE tape type contains only counting rate and coverage data in time-order with overlap eliminated. RATE-27 (1 tape) contains Production Run Numbers 1561 through 1620 and covers the time period of Feb. 7, 1991 through Oct. 12, 1991.

This shipment also includes a **microfilmed** copy of counting rate plots for Bartels Solar Rotations 2148 through 2160 (October 22, 1990 through October 12, 1991).

Sincerely,

Gene

Eugene M. Murphy
Computer Project Manager

cc. M. Cambric B. Campbell G. Lentz M. Munoz
R. Pyle J. Simpson

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May 20, 1996

Mr. Ralph Post
National Space Sciences Data Center
Goddard Space Flight Center
Code 633
Greenbelt, MD 20771

Dear Ralph;

The University of Chicago's annual submission of IMP-8 data is now being shipped to you

The shipment contains our data for the ~1-year period June 1994 through October 1995. It includes a total of 17 magnetic tapes recorded at 6250 BPI in 9-Tracks. We have secured these 2400-foot tapes from a source on the University's campus which gave them to us for free. The tapes are of two types:

1. The JOST tapes contain ALL the instrument data in time-order, with overlap eliminated. As we have done for the past several years, we have again copied eight runs onto each tape rather than the original two runs. There are a total of 15 JOST tapes which contain the Production Run Numbers 1862 through 1981, covering the period June 16, 1994 through October 14, 1995.

2. The RATE tapes contain only counting rate and coverage data in time-order, with overlap eliminated. There are a total of 2 RATE tapes, each with 60 Production Runs, which contain the Run Numbers 1860 through 1979, covering the period June 8, 1994 through October 6, 1995.

This shipment does NOT include a microfilm copy of the counting rate plots for Bartels Solar Rotations, as did some previous shipments. We no longer plot the rates on hard-copy and the University shut down its microfilm department. We have been given funds to set up this data in a graphical interface format on the World-Wide-Web.

Sincerely,

Clifford Lopate

Clifford Lopate

Cc: J. A. Simpson, E. M. Murphy, R. Pyle

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May 20, 1996

Mr. Ralph Post
National Space Sciences Data Center
Goddard Space Flight Center
Code 633
Greenbelt, MD 20771

Dear Ralph;

Because of the large number of tapes we are shipping for this submission, we are sending the tapes in two packages. This is the second of the two packages. It should contain eight of the seventeen tapes we are shipping in total. This box should contain the following tapes:

JOST Tape: Runs 1934-1941
JOST Tape: Runs 1942-1949
JOST Tape: Runs 1950-1957
JOST Tape: Runs 1958-1963
JOST Tape: Runs 1964-1971
JOST Tape: Runs 1972-1979

RATE Tape: Runs 1860-1919
RATE Tape: Runs 1920-1979

Sincerely,

Clifford Lopate

Clifford Lopate

Cc: J. A. Simpson, E. M. Murphy, R. Pyle

 B-25106-000A

IMP - 7,8 RATE SUMMARY TAPE GENERATOR 73-074A-07B

(HRATEGN)

I. Description of Algorithms

The program produces, for a given decom run of IMP-7 or IMP-8 data, a series of rate summaries for periods of up to 256 pseudo-sequences (256 sequences or 4 albums at 1600 IBPS telemetry rate; 64 sequences or 1 album at 400 IBPS; equals 5.46 minutes approximately).

Normally, the summary intervals will be equally long and contiguous, but data gaps and changes in instrument or spacecraft status can alter that pattern.

The output consists of various housekeeping items, flags, etc., and, for each rate, the total counts in the interval and the time period covered by those counts. Depending on our knowledge (or lack thereof) of the status of the instrument during the time the rates were accumulated in the spacecraft, not all available rate readouts are used. (In addition, of course, unavailable "fill" readouts do not affect the totals. In the following discussion, though, such readouts are included in the "used" readouts).

The following discussion assumes the reader's familiarity with the instrument and the telemetry structure of the spacecraft.

Time Periods

The start time (in time of day and pseudo-sequence-count) of each interval is given on the output tape. All intervals begin at the start of an album of telemetry and contain data for at most the following 5.46 minutes. Start times of intervals will monotonically increase, but can be spaced either more or less than 5.46 minutes apart -- more, typically in the case of data gaps; less, typically in the case of bit-rate or status changes. If one interval's start-time follows the previous one by less than 5.46 minutes, it also represents the end time of the previous interval. (That is, intervals do not overlap, though 5.46 minute periods with the same start times may.)

All rate counts are accumulated into the interval during which they were counted, not (necessarily) during which they were telemetered.

New time periods are begun--

1. at the start of the first album of the run, regardless of whether it contains usable data,

2. at the start of the first album containing usable data following a change in telemetry bit-rate.

3. at the start of the first album containing usable data following a change in the large telescope's command status (except to "mixed" or "off").

4. at the start of an album containing usable data whose pseudo-sequence-count exceeds that of the beginning of the present interval by more than 200. (Generally, of course, difference will be exactly 256.)

The determination of accumulation intervals is not affected by the beginning or end of calibrate-mode periods or by short data gaps which do not trigger criterion 4.

Rate readouts used

Every unsectored-rate readout is used in accumulation of rates for the period during which it was counted except--

1. any rate counted or telemetered during an album which has the bit rate warning flag or status warning flag on. (See sort output tape format for the definition of these flags).

2. any rate counted or telemetered during an album during which the large telescope command state was mixed or during which the instrument was off.

3. any rate telemetered during one album but counted during the previous one, unless
   (a) previous album had same bit rate,
   (b) previous album was actually present on input tape (and read without error), and
   (c) rates both counted and telemetered during previous album were also used.

4. as shown in the following table, counts of events that occurred during various special instrument states (X = not used).

RATE	CALIBRATE MODE PAGES 0,2	CALIBRATE MODE PAGES 1,3	EMERGENCY MODE PAGES 0,2	EMERGENCY MODE PAGES 1,3	HIGH GAIN MODE
D1					
D2	X	X	X		
D3	X		X		
D4	X		X		
CK	X	X	X		
D6					
HZLE	X	X	X	X	X
HZHE	X	X	X	X	X
D46	X	X	X	X	
CKD6	X	X	X	X	
L1	X	X			
L2	X	X			
$L1_1$	X	X			
$L1_2$	X	X			
$L1_3$					

The four criteria above are not all independent; in particular, deletions because of 3 should usually already have been made on account of 1 or 2. Also, of course, no fill readout has any affect on the totals for the interval. Readouts with all 10 or 12 log-compressor bits 0 are also ignored; this can happen for non-fill readouts in the case of certain rare hardware glitches.

Sectored rates

No detailed analysis of sectored-rate data is included in this program. For each averaging interval, however, a summary indication of the behavior of a sample of each sectored rate is included. For each sectored rate, the first available readout in the interval among those for pages 0, 1, and 2 of those albums whose unsectored rates were used is examined, except that D2 sectored rates counted during emergency-mode, page-0-or-2 operation or calibration: are ignored. (The readouts for pages 0, 1, and 2 are telemetered during pages 1,2, and 3.) A sectored-rate readout is not available if it is fill data or any sector's log-compressor output is 0000_8 or if the optical aspect system was off as indicated by the OA DPP flag in the input album.

For the single D1 sectored rate readout or single D2 sectored rate readout thus selected, minimum and maximum sector counts are found. If these satisfy the criterion:

$$(MAX - MIN) > 2\sqrt{MAX},$$

then the first occurrence of MAX (i.e., lowest number 1 to 8 of sector with count MAX), first occurrence of MIN, and the quantity:

$$100\ (MAX - MIN)\ /\ (MAX + MIN)$$

are placed in the output for the time interval. If the criterion is not met, both sector numbers are set 0 and the percent-anistropy quantity is set to -1. If there were no available readouts for the sectored rate during the interval, all three output values will be 0.

II. Output Tape Format

Rate summary tapes are 7-track magnetic tapes written in binary (odd) parity at 800 BPI. Separate series of summary tapes are kept for the two spacecraft.

Each rate summary tape will contain data for up to 60 runs; there will be one file per run, the last run being followed by an extra, second EOF. Missing runs within the range contained on the tape will be represented by extra EOF's in the appropriate place. (Therefore a double EOF does not necessarily indicate the end of the tape.) The last run on the tape will be written on the label. (Eventually, when all available data have been processed, all tapes except the last one should contain 60 files).

Each file contains some number of 2640-character records (660 24-bit words). Each record contains fifteen 176-character logical records, each containing rate summary data for one interval, except that there will be from one to fifteen empty (all characters 00_8) logical records at the end of each file--at least one empty logical record, and enough more to pad the last physical record to standard length.

RATE TAPE LOGICAL RECORD

23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0		
		TENTHS OF SECONDS OF THE DAY																						0	+44*I, I=0 TO 14
0	0	0	0	0	0	0	0	0	0	0	0	YEAR				DAY OF YEAR								1	
S/C ID		ORBIT						RUN																2	
PSEUDO-SEQUENCE-COUNT																								3	
0	0	0	RTM XMTR	ANA XMTR	BR	STATUS		C	YEAR,		MONTH,			DAY RATEGN										4	
PROJECTED SUN-EARTH-SPACECRAFT ANGLE																								5	
GEOCENTRIC DISTANCE																								6	
0	0	QF	TEMPERATURE							00		QF	BUSS VOLT											7	
0	0	QF	A-D CAL 0							00		QF	A-D CAL 1											8	
0	0	QF	A-D CAL 2							00		QF	A-D CAL 3											9	
TEMPERATURE CONVERTED										BUSS VOLT CONVERTED														10	
D1 ANISOTROPY																		MAX				MIN		11	
D2 ANISOTROPY																		MAX				MIN		12	
SPARE (=0)																								13	
0	QUALITY							COVERAGE										D1						14	
COUNTS																								15	
0	QUALITY							COVERAGE										D2						16	
COUNTS																								17	
0	QUALITY							COVERAGE										D3						18	
COUNTS																								19	
0	QUALITY							COVERAGE										D4						20	
COUNTS																								21	
0	QUALITY							COVERAGE										CK						22	
COUNTS																								23	
0	QUALITY							COVERAGE										D6						24	
COUNTS																								25	
0	QUALITY							COVERAGE										HZLE						26	
COUNTS																								27	
0	QUALITY							COVERAGE										HZHE						28	
COUNTS																								29	
0	QUALITY							COVERAGE										D46						30	
COUNTS																								31	
0	QUALITY							COVERAGE										CKD6						32	
COUNTS																								33	
0	QUALITY							COVERAGE										L1						34	
COUNTS																								35	
0	QUALITY							COVERAGE										L2						36	
COUNTS																								37	
0	QUALITY							COVERAGE										L1₁						38	
COUNTS																								39	
0	QUALITY							COVERAGE										L1₂						40	
COUNTS																								41	
0	QUALITY							COVERAGE										L1₃						42	
COUNTS																								43	
23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0		

CONTENTS OF LOGICAL RECORD

(24-bit words, counting from 0)

WORD 0

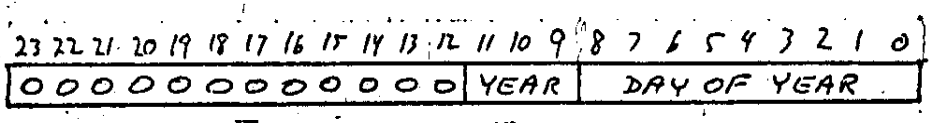
24-bit binary unsigned integer, time of day in tenths of seconds past midnight.

WORD 1 (part)

Day of year (January 1 = 1)

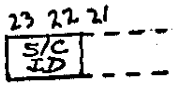
WORD 1 (part)

Year, modulo 1970



The preceeding three items give the time, day, and year, Universal Time, of the start of the rate averaging interval.

WORD 2 (part)

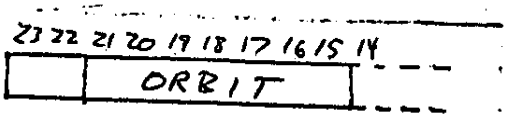


Spacecraft ID.

IMP-7 = 01

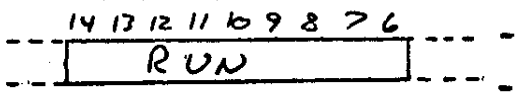
IMP-8 = 10

WORD 2 (part)



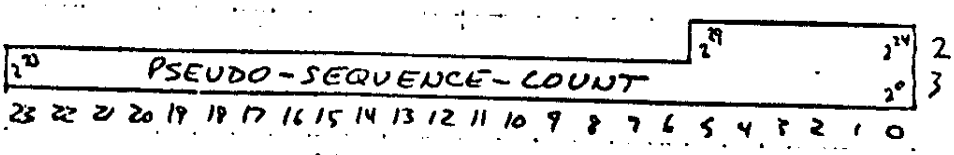
Orbit number of these data. A 7-bit unsigned integer. Orbit boundaries are approximate.

WORD 2 (part)



A 9-bit unsigned integer, the decom run number of these data.

WORD 2 (part)
WORD 3



Pseudo-sequence-count. The 30-bit unsigned integer PSC of the start of the rate averaging interval.

WORD 4 (part)

23	22	21	20	19	18	17	16	15	14	13	12
0	0	0	PCM XMTR		ANA XMTR		BR	STATUS			C

Flags, as follows:

PCM XMTR = 00 if PCM transmitter was always on during interval

01 if PCM transmitter was ever off

10 if no available data on this

11 (never)

A summary of the corresponding flag on the input tape for the albums making up this interval. The 01 value will probably never legitimately occur, but can occur due to errors in our raw data tapes.

ANA XMTR = 00 if analog transmitter always off during interval

01 if analog transmitter ever on

10 if no available data on this

11 (never)

A summary of the corresponding flag on the input tape for the albums making up this interval.

BR = 0 if original data were transmitted at 400 IBPS bit rate

1 if 1600 IBPS

STATUS = Command state of instrument during this period; 3-bit integer

0	off	4	flare-override mode
1	normal mode	5	mixed
2	high gain mode	6,7	(will not occur)
3	emergency mode		

All albums of data used in the interval will have had the indicated command state. "Off" or "mixed" albums are never used, but if there are no usable albums within the first 5.46 minutes of the run, "off" or "mixed" may be indicated for the first interval, which will, however, contain no data.

C = 1 if any calibrate-period data are included in this interval

0 otherwise

WORD 4 (part)

11 10 9 8	7 6 5 4	3 2 1 0
YEAR	MONTH	DAY

Date of RATEGN program run that produced this file. Unsigned binary integers: year (mod 1970), month (Jan = 1), and day of month, all as typed in by the operator.

WORD 5

24-bit signed (2-compliment) integer giving, in tenths of degrees, the projection of the sun-earth-spacecraft angle on the ecliptic plane. This value is added by a separate program. If it is not yet present, a default value of -5000_{10} (=-500 degrees) will be present. If orbit data was not available for this time, a value of -6000_{10} (=-600 degrees) will be present.

If present, the value will range from 0 to 360 degrees. The angle is 0 degrees when the projection of the spacecraft's position onto the ecliptic lies on the earth-sun line; the angle increases counter-clockwise when viewed from the north ecliptic pole.

WORD 6

24 bit signed (2-compliment) integer giving, in tenths of Earth radii, the geocentric distance of the satellite. This value is added by a separate program. If it is not yet present, a default value of -5000_{10} (=-500 Earth radii) will be present. If orbit data was not available for this time, a value of -6000_{10} (=-600 Earth radii) will be present.

WORD 7-9

Analogs

23 22	21 20	19 18 17 16 15 14 13 12	11 10	9 8	7 6 5 4 3 2 1 0	
0 0	QF	TEMPERATURE	0 0	QF	BUSS VOLTAGE	7
0 0	QF	A-D CAL 0	0 0	QF	A-D CAL 1	8
0 0	QF	A-D CAL 2	0 0	QF	A-D CAL 3	9

The first non-fill value, if any, of the indicated 8-bit analogs in those albums whose rates were used in compiling the totals for the time interval. If no value is available, the output will be fill (eight 0 bits). The qualify flag will be that of the readout used. Quality flag code:

00 excellent
01 good
10 fill
11 (will not occur)

WORD 10 (part)

23 22 21 20 19 18 17 16 15 14 13 12
CONVERTED TEMPERATURE

A 12-bit signed integer giving the instrument temperature in tenths of degrees C. This is derived from the count in word 7 above, using the calibration of the temperature sensor and assuming nominal calibration of the spacecraft's A/D converter. If the count is greater than 222, +80°C will be the value. If the count is less than 32 or fill, -40°C will be the value.

WORD 10 (part)

11 10 9 8 7 6 5 4 3 2 1 0
CONVERTED BUSS VOLTS

A 12-bit unsigned integer giving the converted value of the spacecraft buss voltage in units of 10mV, computed according to

voltage = 25 (230-count) + 24000 mV,

which assumes nominal operation of the A/D converter. If the count in word 7 above was fill, the converted value will be 29750 mV.

WORD 11

D1 sectored rate anisotropy indication.

WORD 12

D2 sectored rate anisotropy indication

23 22 21 20 19 18 17 16 15 14 13 12	11 10 9 8 7 6	5 4 3 2 1 0	
D1 ANISOTROPY	MAX	MIN	11
D2 ANISOTROPY	MAX	MIN	12

See the preceeding section on descriptions of algorithms for details on the derivation of these. Briefly, for each case--

if no data, entire word is 0's.

if data available but "significance" criterion not met,

MAX = MIN = 0, anisotropy = -1 (16-bit 2-compliment).

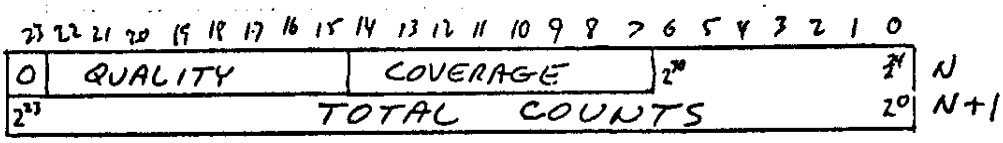
if the criterion is satisfied, then MAX is set to the first sector in which the greatest count occurred, MIN is set to the first sector in which the least count occurred, and the anisotropy measure is set to the binary integer truncated value of

100 (greatest - least) / (greatest + least)

WORD 13

Spare. 24 binary zeroes.

WORDS	14,15	D1 rate	30,31	D46 rate
	16,17	D2 rate	32,33	CKD6 rate
	18,19	D3 rate	34,35	L1 rate
	20,21	D4 rate	36,37	L2 rate
	22,23	CK rate	38,39	$L1_1$ rate
	24,25	D6 rate	40,41	$L1_2$ rate
	26,27	HZLE rate	42,43	$L1_3$ rate
	28,29	HZHE rate		



TYPICAL RATE

The total counts, and the number and quality of the data, for the readouts of the unsectored rates used in this interval, as selected according to the criteria in the earlier description of algorithms.

COUNTS - 31-bit unsigned binary integer (will be 0 if no data).

COVERAGE - 8-bit unsigned integer giving time covered by available data for this rate, in units of 2.56 seconds (at the nominal spacecraft clock frequency). Range 0 (for no data) to 128.

QUALITY - 8-bit unsigned binary integer giving the time covered by available data which were of excellent telemetry quality. In the same units and not greater than the coverage figure above.

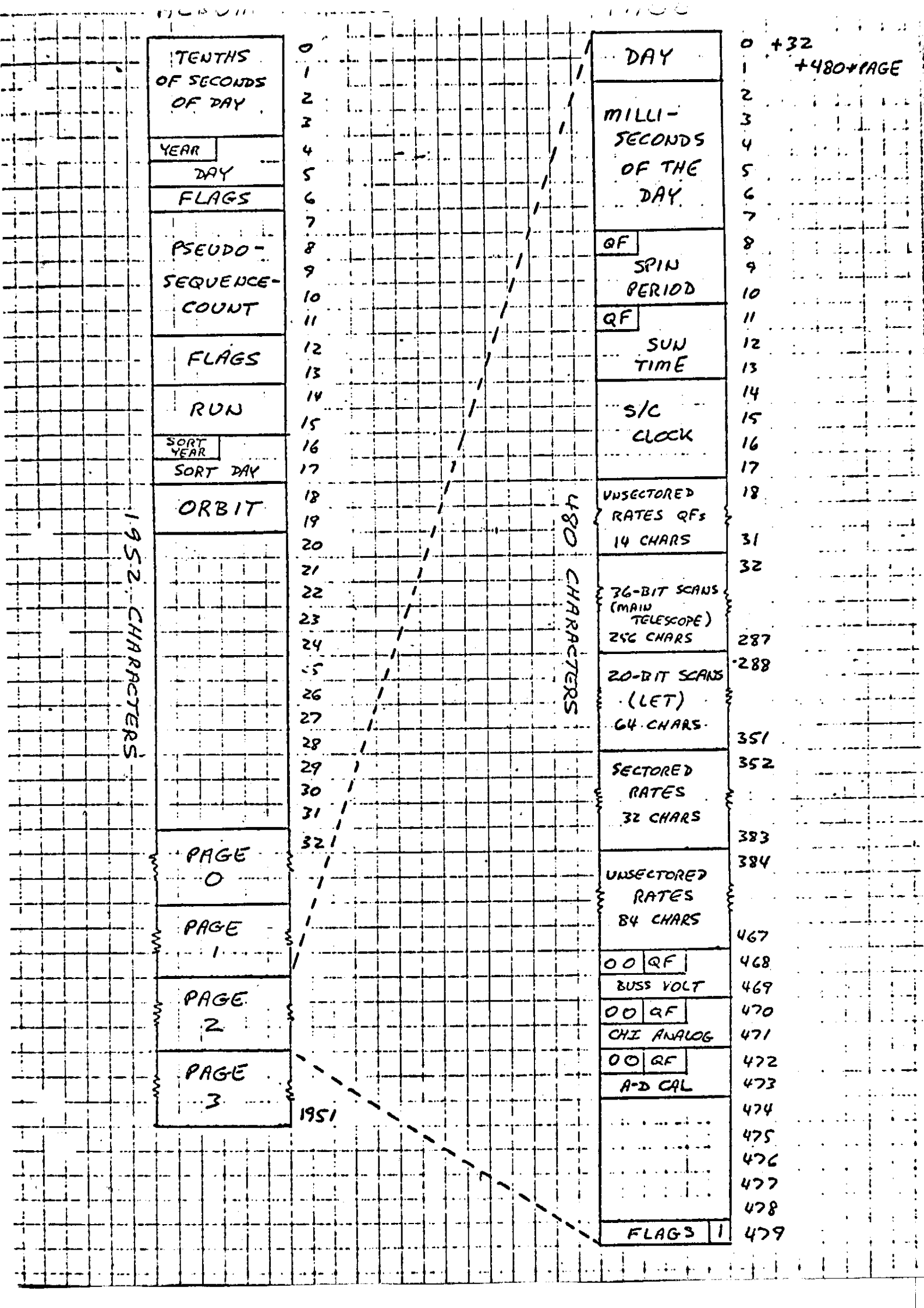
IMP-7,8 SORTED DATA TAPE FORMATS 73-078A-07A

The output of the program which reformats, time-sorts and eliminates overlap from the data on our raw data tapes produces an output file for the run. These files are gathered onto HOST (IMP-7) or JOST (IMP-8) tapes. HOST (or JOST) tape n contains runs 2 (n-1) and 2 (n-1)+1, thus:

HOST (JOST)	FILE	RUN
1	1	0
1	2	1
2	1	2
2	2	3
3	1	4
.	.	.
.	.	.
.	.	.

Each run is a file. Before processing for the entire mission is complete, some runs may be missing. Their files then consist solely of an end-of-file, with no data records. Note that if there are ultimately an odd number of runs, the final tape for a mission will contain only one run. Also, there was no run 0 for IMP-8; JOST 1 therefore begins with an EOF in place of run 0.

A HOST or JOST tape is a standard 7-track magnetic tape written in binary (odd) parity. Each file (run) consists, unless the run is missing, of some number of 1952-character physical records, each containing data for one album of telemetry. A description of the content of such a record follows. Note that the 6-bit characters in the album header are numbered starting with 0 and that the 480 characters of information for each page are numbered, starting with 0, relative to the start of the page (see diagram on next page).

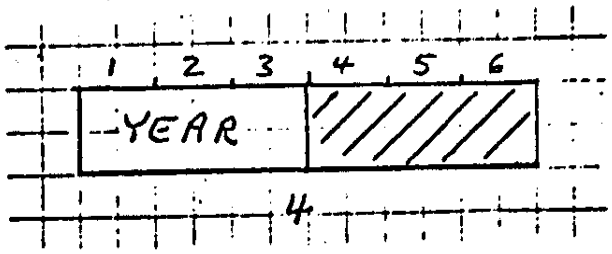

TENTHS OF SECONDS OF DAY
YEAR
DAY
FLAGS
PSEUDO-SEQUENCE-COUNT
FLAGS
RUN
SORT YEAR
SORT DAY
ORBIT
PAGE 0
PAGE 1
PAGE 2
PAGE 3
1952 CHARACTERS
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
1951
480 CHARACTERS
DAY
MILLI-SECONDS OF THE DAY
QF
SPIN PERIOD
QF
SUN TIME
S/C CLOCK
UNSECTORED RATES QFs 14 CHARS
36-BIT SCANS (MAIN TELESCOPE) 256 CHARS
20-BIT SCANS (LET) 64 CHARS
SECTORED RATES 32 CHARS
UNSECTORED RATES 84 CHARS
00 QF
BUSS VOLT
00 QF
CHI ANALOG
00 QF
A-D CAL
FLAGS 1
0 +32
1 +480*PAGE
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
31
32
287
288
351
352
383
384
467
468
469
470
471
472
473
474
475
476
477
478
479

Items Present Once Per Album

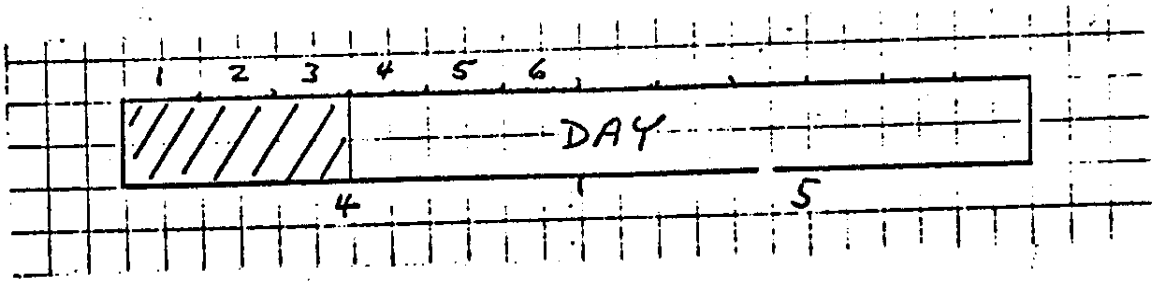
Chars.

0- 3 Tenths of seconds of the day. A 24-bit unsigned integer giving the time in tenths of seconds past midnight, Universal Time.

4(part) Year. A 3-bit unsigned integer giving the year modulo 1970 (e.g. 3=1973).



4(part)-5 Day. A 9-bit unsigned integer giving the day of the year (January 1=1; see table).



The time given in the above three items is the time of the start of the album. This time is extrapolated back, if necessary, from the milliseconds of the day on our raw data tapes for the start of the first non-empty page in the album, and truncated to an even tenth-second. If two albums are merged to create the final output album, an arbitrary one of the times is kept. (Albums are not merged unless, among other things, the times agree within 2 seconds.)

Times in a file will monotonically increase except, perhaps, at a bit-rate change.

Regular Year, January 1 = 1

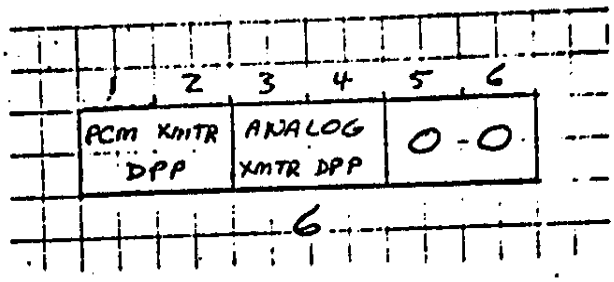
DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1	32	60	91	121	152	182	213	244	274	305	335
2	2	33	61	92	122	153	183	214	245	275	306	336
3	3	34	62	93	123	154	184	215	246	276	307	337
4	4	35	63	94	124	155	185	216	247	277	308	338
5	5	36	64	95	125	156	186	217	248	278	309	339
6	6	37	65	96	126	157	187	218	249	279	310	340
7	7	38	66	97	127	158	188	219	250	280	311	341
8	8	39	67	98	128	159	189	220	251	281	312	342
9	9	40	68	99	129	160	190	221	252	282	313	343
10	10	41	69	100	130	161	191	222	253	283	314	344
11	11	42	70	101	131	162	192	223	254	284	315	345
12	12	43	71	102	132	163	193	224	255	285	316	346
13	13	44	72	103	133	164	194	225	256	286	317	347
14	14	45	73	104	134	165	195	226	257	287	318	348
15	15	46	74	105	135	166	196	227	258	288	319	349
16	16	47	75	106	136	167	197	228	259	289	320	350
17	17	48	76	107	137	168	198	229	260	290	321	351
18	18	49	77	108	138	169	199	230	261	291	322	352
19	19	50	78	109	139	170	200	231	262	292	323	353
20	20	51	79	110	140	171	201	232	263	293	324	354
21	21	52	80	111	141	172	202	233	264	294	325	355
22	22	53	81	112	142	173	203	234	265	295	326	356
23	23	54	82	113	143	174	204	235	266	296	327	357
24	24	55	83	114	144	175	205	236	267	297	328	358
25	25	56	84	115	145	176	206	237	268	298	329	359
26	26	57	85	116	146	177	207	238	269	299	330	360
27	27	58	86	117	147	178	208	239	270	300	331	361
28	28	59	87	118	148	179	209	240	271	301	332	362
29	29		88	119	149	180	210	241	272	302	333	363
30	30		89	120	150	181	211	242	273	303	334	364
31	31		90		151		212	243		304		365

Leap Year, January 1 = 1

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1	32	61	92	122	153	183	214	245	275	306	336
2	2	33	62	93	123	154	184	215	246	276	307	337
3	3	34	63	94	124	155	185	216	247	277	308	338
4	4	35	64	95	125	156	186	217	248	278	309	339
5	5	36	65	96	126	157	187	218	249	279	310	340
6	6	37	66	97	127	158	188	219	250	280	311	341
7	7	38	67	98	128	159	189	220	251	281	312	342
8	8	39	68	99	129	160	190	221	252	282	313	343
9	9	40	69	100	130	161	191	222	253	283	314	344
10	10	41	70	101	131	162	192	223	254	284	315	345
11	11	42	71	102	132	163	193	224	255	285	316	346
12	12	43	72	103	133	164	194	225	256	286	317	347
13	13	44	73	104	134	165	195	226	257	287	318	348
14	14	45	74	105	135	166	196	227	258	288	319	349
15	15	46	75	106	136	167	197	228	259	289	320	350
16	16	47	76	107	137	168	198	229	260	290	321	351
17	17	48	77	108	138	169	199	230	261	291	322	352
18	18	49	78	109	139	170	200	231	262	292	323	353
19	19	50	79	110	140	171	201	232	263	293	324	354
20	20	51	80	111	141	172	202	233	264	294	325	355
21	21	52	81	112	142	173	203	234	265	295	326	356
22	22	53	82	113	143	174	204	235	266	296	327	357
23	23	54	83	114	144	175	205	236	267	297	328	358
24	24	55	84	115	145	176	206	237	268	298	329	359
25	25	56	85	116	146	177	207	238	269	299	330	360
26	26	57	86	117	147	178	208	239	270	300	331	361
27	27	58	87	118	148	179	209	240	271	301	332	362
28	28	59	88	119	149	180	210	241	272	302	333	363
29	29	60	89	120	150	181	211	242	273	303	334	364
30	30		90	121	151	182	212	243	274	304	335	365
31	31		91		152		213	244		305		366

Chars.

6 Flags, as shown:



PCM transmitter DPP summary:

00 - All non-fill readouts of the PCM transmitter digital performance parameter in this album agree that the transmitter is on.

01 - One or more PCM transmitter DPP values show transmitter off.

10 - No non-fill readouts of PCM transmitter DPP.

11 - (will not occur)

Analog transmitter DPP summary:

00 - All non-fill readouts of the analog transmitter digital performance parameter in this album agree that the transmitter is off.

01 - One or more analog transmitter DPP values show transmitter on.

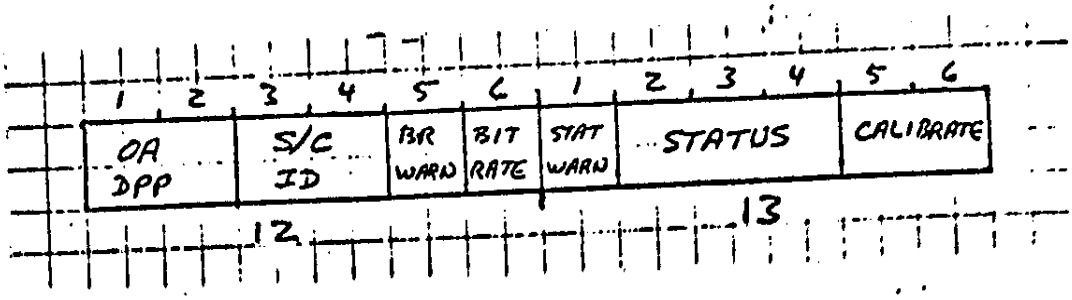
10 - No non-fill readouts of the analog transmitter DPP.

11 - (will not occur)

7-11 Pseudo-sequence-count. A 30-bit unsigned integer giving the PSC of the first sequence in the album. This is extrapolated back as needed from the PSC of the first non-fill sequence of the first non-empty page as given on our raw data tapes. PSCs within a file will increase monotonically except, perhaps, when there is a bit-rate change. (Two albums are never merged to create the output album unless the PSCs are identical.)

Chars.

12-13 Flags, as follows:



OA system DPP summary:

01 - All non-fill values of the optical-aspect system digital performance parameter agree that the system is on.

10 - One or more non-fill OA DPPs is the album state that the system is off.

00 - No non-fill readouts of the OA DPP.

11 - (will not occur)

Spacecraft ID.

01 - IMP-7

10 - IMP-8

00,11 - (will not occur)

Bit rate warning flag. A flag indicating whether it is known that during the preceding album of time the spacecraft was operating at the same bit rate as this album. (If not known, the first rate readouts in the album may cover an unknown amount of time.) This flag is set to 1 during reading of the raw data tape in each album containing the first non-empty page of an input file. If two albums are merged to create the final output file, the flag is reset to 0 unless it was set in both albums. During output, the flag is reset if the preceding album output has the same bit rate and immediately precedes this one in real time.

0 - preceding album known same

1 - otherwise

Bit rate. The telemetry bit rate, from the input file-header record. The program insists that this be consistent with the PSC stepping rate and the "k" bit in the telemetered spacecraft clock.

0 - 400 BPS

1 - 1600 BPS

Status warning flag. This flag is set if the status of the instrument during the preceding album of time is "mixed" (see status below) or is not known to be the same as the status of current album. Specifically, the flag is set to 1 if: (a) last album output is different bit rate or doesn't immediately precede in real time, or (b) the status of last album is "mixed" or different, or (c) the first fourteen snapshots (i.e. all but the last two) of the preceding album were all fill.

0 - previous status known same

1 - otherwise

Status. A 3-bit flag giving the ground-command state of the instrument during the current album. For each non-fill sequence in the album, a status is determined as follows: if the PI bits in the 36-bit scan are 00, the instrument is presumed to be off. Otherwise, the GC bits in the 20-bit scan are used. If all the sequences agree, then that is the summary status for the album; otherwise, the status is "mixed".

000 - off

001 - normal

010 - high gain

011 - emergency

100 - flare override

101 - mixed

110,111 - (will not occur)

Calibrate flag. For each album, the reconstructed spacecraft clock value in the first non-empty page is examined, and a calibrate/normal flag is constructed from the known relation between calibrate mode and the clock.

01 - this is the first album of a calibrate period

10 - this is an album of calibrate other than the first

11 - this is the first album of normal mode data following a calibrate period

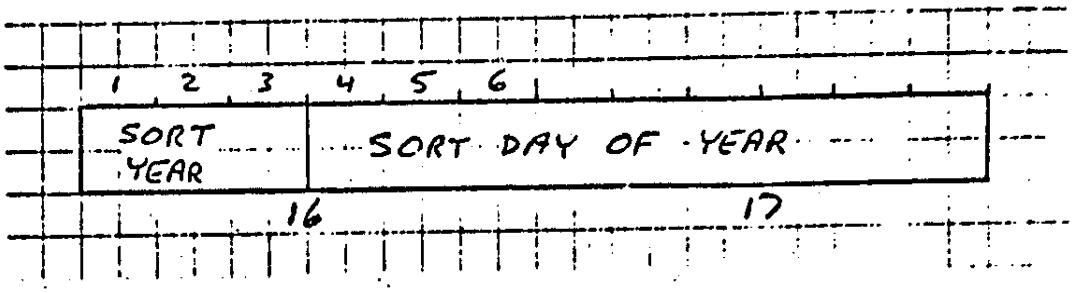
00 - otherwise

(Note: "first album" means the actual first album in real time. The first album may not be present on the tape, owing to a gap in data coverage.)

Chars.

14-15 Decom run number, a 12-bit unsigned integer.

16-17 Date of sort. The date (day, January 1=1, and year modulo 1970) that the sort program was run on the raw data tape. (For bookkeeping and error tracing.)



18-19 Orbit number. A 12-bit unsigned orbit (perigee-crossing) number, taken from the header record in each raw data tape file. Ordinarily, all files in a run are for the same orbit, but in the event that two albums from files with different orbit numbers are merged, the smaller number will be kept. (The orbit number in the file header refers to the beginning time of the file.)

20-31 spares

DS 008968

FAST ANALYSIS OF TAPE AND RECOVERY -- FATAR VER 4.3.5 -- INNOVATION DATA PROCESSING AUTHORIZED 1/17/95 PAGE 1

FATS070 CONTROL CARD TABLE SIZE IS 4096 BYTES

FATAR CONTROL CARDS

Copy D082510

```
1--    ANALYZE BLP,LABELS=NO,PRTLEN=1000
2--    PRINT LF=1,B=1-2,HEX
3--    PRINT LF=8,B=2653-2654,HEX
4--    PRINT LF=9,B=1-2,HEX
5--    PRINT LF=16,B=3031-3032,HEX
```

FATS071 TAPE BUFFER SIZE IS 65535 BYTES

Start time 9/15/86

CHARACTERISTICS OF THE TAPE TO BE ANALYZED

UNIT	SERIAL	DEN	TRTCH
590	CMR11	6250	

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
```

Run 1166 day 258

```
     1  1464  PRINT REQUESTED        0C166610 2018D8D4 8066448E/D54184FF  FC2A0000 00000000 102004B8 BFED8000
      +00033                        2000018D 485A00A8 2828088A 82288A88  00200000 00000020 00000000 00200000
      +00065                        00000020 00000000 00200000 00000020  00000000 00200000 00000020 00000000
      +00097                        00200000 00000020 00000000 000A05C0  6A020006 00C00802 00027AC3 5203000C
      +00129                        07C08A28 000000C0 00000006 02C03A03  000403C0 3A080000 00C00000 000AC5C7
      +00161                        CA2D0000 00C00000 000400C0 44020002  03C05E03 000C03C0 4A040000 00C00000
      +00193                        00200000 00000020 00000000 00200000  00000020 00000000 00200000 00000020
      +00225                        00000000 000E00C0 3000000C 34C04E10  20000020 00002000 00200000 20000000
      +00257                        00000000 00000000 00000000 00000000  00000000 20000020 00002000 00000000
      +00289                        00000000 00000000 00000000 00000000  00000000 00000000 000000A3 0A30A20A
      +00321                        00000000 00007FB8 0000000F 8007F000  000F8007 F07F000A 0000007F 00000000
      +00353                        007F07F0 0007F000 00007F00 0A800000  000005E8 00007C04 02000E70 00000023
      +00385                        102004B9 0FD210E0 4233818D 490000A0  20222000 02200000 000604C0 4A030004
      +00417                        04C05A06 000000C0 0000000C 0AC04E19  000803C0 4A030004 04C05A04 000004C0
      +00449                        5202000C 03C06A07 000A10C0 82040004  02C03002 000000C0 00000000 00C00800
      +00481                        000A03C0 4A030000 00C00000 00200000  00000020 00000000 000802C0 2A030000
      +00513                        00C00000 000402C0 4A08000E 03C04A07  000000C0 00000006 03C04A06 000424C0
      +00545                        8E030000 00C00000 000000C0 00000006  03C04A08 00200000 00000020 00000000
      +00577                        00200000 00000020 00000000 00200000  00000020 00000000 00000000 00000000
      +00609                        00000000 00000000 00000000 00200000  00000000 00000000 00000000 00000020
      +00641                        00002000 00200000 A70AE0A6 0A40A00A  E0A40A50 07C07C07 C07CF800 7C07CF80
      +00673                        988988A6 0A60A20A 50000000 07F07F07  F000B000 7F07F000 07F00007 F000A80A
      +00705                        2007F07F 07F07F07 F07F07F0 0007F000  F8007FA8 0B40A50A 805E85E8 07C07C20
      +00737                        009F01F0 00000003 102004B9 5FB510E0  43F4118D 4A8AAA0A 8A8A08A8 8888888A
      +00769                        00200000 00000020 00000000 00200000  00000020 00000000 00200000 00000020
      +00801                        00000000 00200000 00000020 00000000  00200000 00000020 00000000 00200000
      +00833                        00000020 00000000 00200000 00000020  00000000 00200000 00000020 00000000
      +00865                        000003C0 3A030000 00C00000 00200000  00000020 00000000 00200000 00000020
      +00897                        00000000 000803C0 5E010006 00C04000  000407C2 52040000 00C00000 000A03C0
      +00929                        4E030008 12C14A0A 000403C0 4A08000E  00C00A00 000000C0 0000000A 02C03A02
      +00961                        20000020 00002000 00200000 20000020  00000000 00000000 00000000 00000000
```

```
* * * * * * *  END OF FILE      5  -- FILE CONTAINED    2[illegible]3 BLOCKS
```


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       6

* * * * * * *  END OF FILE      6  -- FILE CONTAINED    2835 BLOCKS

* * * * * * *  START FILE       7

* * * * * * *  END OF FILE      7  -- FILE CONTAINED    2791 BLOCKS

* * * * * * *  START FILE       8

   2653  1464  PRINT REQUESTED          022CC312 2018F90E EC644495 D63186FF  FC2A0000 00000000 122000D9 7C7910E0
       +00033                           034C2390 F0000000 00000000 00000000  000A03C0 4A080008 61C43E03 000403C0
       +00065                           5A03000E 05C06A02 000A14C0 BE050006  0FC04E05 00042EC0 4E04000E 03C04A02
       +00097                           000C00C0 00000008 03C03A04 000603C0  4A070002 13C06E03 000000C0 0000000A
       +00129                           04C03A03 00060DC0 AE0A0004 03C04A04  00001CC0 FE05000C 02C03E12 000803C0
       +00161                           52020000 00C00000 0000EDC1 3E230000  00C00000 000600C0 54020004 05C06A03
       +00193                           000006C7 2801000C 03C04804 000607C1  1E070004 BDC96A79 000146C1 1F33000C
       +00225                           00C03000 000000C0 00000006 ADC1EE4B  00000008 00020400 08000000 00000200
       +00257                           00000000 02000000 0C000306 00040C00  05070002 00000002 00040000 00000000
       +00289                           A40A50A2 0A40A20B 40A00A20 07C07C07  C07C07CF 8007C07C A30A80A2 0A40A60A
       +00321                           70988A40 F8007F07 F07FB800 7FB80F80  07F07F07 F07FA00A 30A10A20 07F07F07
       +00353                           F07FF80F 8007FF80 07F07FAE 007FA40A  205EC5EC 07C07C04 00A10E70 00000003
       +00385                           122000D9 CC5D10E0 00D42390 F1000000  00000000 00000000 000002C0 4A0A000E
       +00417                           1AC04E0A 000803C0 4A080008 04C02001  000236C0 AE06000E 00C03000 000A06C0
       +00449                           6A040008 04C05E02 000000C0 00000000  0EC0CE04 000E03C0 6E080006 07C06E03
       +00481                           000618C0 AE9F0000 46C16E15 000000C0  0000000A 08C07E0A 000662C3 FE5C0000
       +00513                           04C05A03 000C05C0 7A02000A 02C03A09  000000C0 00000002 44C00E00 000E08C0
       +00545                           AA0A000A 04C05A02 000000C0 00000004  02C04A05 000003C0 5A030000 00C00000
       +00577                           000000C0 00000004 00C04000 000E03C0  5A04000E 04C05A02 0E000202 00060A00
       +00609                           03000000 00000000 00000C00 04020002  0C000300 00000400 03000000 00000000
       +00641                           00000000 000F0003 A309A898 8A40AE0A  00A20AE0 07CF8007 C07C07C0 7C07C07C
       +00673                           A30A20A8 0A209809 80A40A70 F8007F07  F07FF80F 8007FF80 07F07F07 F07FAC0B
       +00705                           40A00AA0 07F07FF8 0F8007F0 7F07F07F  F8007FB8 0F80A60A 605E85EC 07C07C20
       +00737                           00A101F0 00000003 122000DA 1C4110E0  02943390 F2000000 00000000 00000000
       +00769                           000A03C0 38070002 09C08A25 000203C0  3A080000 00C00000 000A0DC1 92020000
       +00801                           00C00000 000000C0 0000000E 04C04A03  000A05C0 6A020004 17C09E2D 000000C0
       +00833                           00000000 00C03000 000A03C0 4A070008  21C06E14 000000C0 0000000E 03C03E02
       +00865                           000A02C0 4A090008 04C04A03 000635C0  5E270002 09C06E05 000E04C0 5A010008
       +00897                           04C05A03 000604C0 5A020002 02C03A02  000C04C0 5A03000A DEC0AE1D 000000C0
       +00929                           00000000 00C00000 000000C0 0000000C  02C04A07 000000C0 00000000 00C00000
       +00961                           00000000 00000400 020A0002 01000500  00000000 00080003 00000200 00000200
       +00993                           02000000 00000000

   2654  1464  PRINT REQUESTED          022FF512 2018F90F 2C644495 D63186FF  FC2A0000 00000000 122000DA BC0910E0
       +00033                           01DC4390 F4000000 00000000 00000000  000803C0 4A060000 00C00000 000E05C0
       +00065                           6A020008 03C03A03 000603C0 4A020004  08C07A10 000000C0 00000000 00C00000
       +00097                           000603C0 3A030004 03C03A03 000005C0  6A030000 00C00000 000A03C0 4A040006
```

Stop/End time 10/17/8L

Rm 1173

day 290

```
+00161                    4A03000C 06C09A04 000803C0 4A020006  02C05A05 000204C0 5A02000E 00C03000
 0193                     000A03C0 3A080008 7C09A04 000202C0   4A070000 14C04E02 000A04C0 5E030[illegible]6
 0225                     80C0AE19 000403C0 2030000 03C04A05   0000000E 00020800 03000002 0400[illegible]E

+00097                    000603C0 3A03[illegible]
 0122                     03C03A02 [illegible]
+00161                    [illegible]03000C 06C09A04 000803C0 4A020006  02C05A05 000204C0 5A02000E 00C03000
```


Copy D082511

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)

       +00257                          00030200 03000000 0200040E 00060700  04080002 0000000C 00060000 000C0003
       +00289                          A20A50A5 0A40AE0A C0A00A10 07C07CF8  007C07CB 8007C07C 980A20A8 0A30A00A
       +00321                          40988A40 07F07FF8 0F80B000 7F07FB80  07F07F07 F07FA10A 70A20A10 07F07FF8
       +00353                          0F8007F0 7F07F07F 07F07F07 F07FA70B  405EC5EC 07C07C04 00A10E70 00000003
       +00385                          122000DB 0BED10E0 039C5390 F5000000  00000000 00000000 000C05C0 5A070000
       +00417                          00C00000 00040DC0 50020002 06C06002  000C1CC0 4E02000A 04C05A09 000000C0
       +00449                          00000000 00C00000 000011C0 4202000A  08C08A27 000602C0 4A020004 03C04A02
       +00481                          000E21C1 12030000 00C00000 000802C0  38010000 00C00000 000003C0 5A020000
       +00513                          00C00000 000000C0 00000002 04C04E19  000000C0 0200000E 0DC1DE03 000000C0
       +00545                          00000004 03C04A03 000009C0 5E06000E  03C04A07 000A05C0 6A030008 08C05202
       +00577                          000017C1 8A0C0000 00C00000 000804C0  6A020006 03C04A02 02000600 00000400
       +00609                          020C0003 04000300 00000C00 02000000  00000006 00030000 03020004 0E000200
       +00641                          00000000 00020003 A60A20A2 0990A30A  C0AA0A10 07C07CF8 007CF800 7C07C07C
       +00673                          A40A70A5 0A40A109 88A50A20 07F07FB8  007F07F0 7F07FF80 07F07F07 F07FA30A
       +00705                          C0A80A80 07F07FF8 0F8007F0 7F07F07F  07F07FAA 0AC0A10A E05EC5F0 07C07C20
       +00737                          00A101F0 00000003 122000DB 5BD110E0  41246390 F6000000 00000000 00000000
       +00769                          000000C0 0000000E 03C04A04 000000C0  00000006 06C00E00 000403C0 4E01000E
       +00801                          03C04A02 000C52C1 0E0F0008 19C58201  00040EC0 9E0D0002 06C0EE07 000000C0
       +00833                          0000000A 03C04A03 000403C0 3A080000  00C00000 000000C0 00000000 00C00000
       +00865                          000604C0 5A050000 00C00000 000000C0  0000000A 03C03E02 000602C0 4A060002
       +00897                          1AC04802 000009C0 AE290000 00C00000  000000C0 00000004 04C04802 000213C2
       +00929                          C202000C 03C04A03 000000C0 00000006  02C03E01 000008C0 7A0A000C 03C04A08
       +00961                          0E000301 00030F00 05060002 08000300  00000A00 04000000 07000400 00000000
       +00993                          00000003 04000300
```

Start time 10/17/8

```
* * * * * * *  END OF FILE      8  -- FILE CONTAINED    2654 BLOCKS
```

Run 1174 day 290

```
* * * * * * *  START FILE       9

     1  1464  PRINT REQUESTED          02332712 2018F90F 6C6E4496 D63186FF  FC2A0000 00000000 122000DB FB9810E0
       +00033                          006C7390 F86AA008 08080888 88888888  00200000 00000020 00000000 00200000
       +00065                          00000020 00000000 00200000 00000020  00000000 00200000 00000020 00000000
       +00097                          00200000 00000020 00000000 00200000  00000020 00000000 00040BC0 AA200000
       +00129                          C5C0EE77 000A02C0 3A020008 03C04A02  000000C0 00000000 4FC01E02 000A04C0
       +00161                          52010008 00C00000 000000C0 00000000  00C00000 000E03C0 70010008 08C08A0F
       +00193                          000600C0 40000000 00C00000 000000C0  00000008 04C04A03 000603C0 6A040000
       +00225                          00C00000 000000C0 0000000C 09C09A23  20000020 00002000 00200000 20000020
       +00257                          00000000 00000000 00000000 00000000  00000000 0A00020F 00040000 000C0003
       +00289                          A20A00A1 0A70A20A 20B00A20 07C07C07  C07C07C0 7C07C07C 00000000 0000A10A
       +00321                          10988A00 00007F07 F07F000F 8007FF80  00007F07 F07F000A C0000AA0 00007F00
       +00353                          007F0000 7F00007F 00007F00 0F80000A  100005EC 00007C04 02000E70 00000003
       +00385                          122000DC 4B7D10DF C22C9390 F9000000  00000000 00000000 000000C0 00000002
       +00417                          01C03001 000000C0 00000000 00C00000  000604C0 5A030004 48C0C005 000E0AC0
       +00449                          8A33000E 03C04E02 000807C1 22020000  00C00000 00003BC0 8E08000E 1AC0BE04
       +00481                          000804C0 4E020004 0AC05602 000210C0  9202000E 09C04E08 000A02C0 4A070008
       +00513                          02C03A04 000200C0 30000000 04C04002  000C03C0 4A060006 10C0DA0E 00041FC0
       +00545                          4E220000 02C03E02 000A03C0 52020008  00C04000 00040FC0 EA0E000E 04C05A05
       +00577                          000C0CC0 CA090000 00C00000 000603C0  4A030002 06C08A03 0000000C 00030A00
```

0993 00000000 00000000

End time: 11/18/86

FAST ANALYSIS OF TAPE AND RECOVERY -- FATAR VER 4.3.5 -- INNOVATION DATA PROCESSING AUTHORIZED 1/17/95 PAGE 7

FATAR DETAIL REPORT

BLOCK NUMBER	LNGTH/ DISPL	MESSAGE/ BLOCK TYPE	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)
3032	1464	PRINT REQUESTED	04FE4714 20195987 5864449D C44189FF FC2A0000 00000000 142001F3 53CA10DF
	+00033		C20A2198 64000000 00000000 00000000 000610C0 532A0000 00C00000 000F17C1
	+00065		2E4F000A 04C05A02 000000C0 00000004 03C04A02 000E03C0 5202000C D5C4CE0F
	+00097		000809C0 9A0D0004 03C04A02 000E01C0 0A00000E 1FC11E0A 000814C0 9E020002
	+00129		00C01A02 000000C0 0000000E B5C19E0A 00082AC0 FE0D0006 0DC0CA09 000202C0
	+00161		4A050000 00C00000 000E1BC0 9205000C 03C03A09 000000C0 00000000 0FC06E03
	+00193		000000C0 00000000 00C00000 000407C0 72030000 00C04000 000E01C0 3A040008
	+00225		04C05A06 000000C0 00000000 00C00000 09000300 00000000 00000000 00000000
	+00257		00000000 00000000 00000000 00000000 00000000 0000000D 00030100 0F000000
	+00289		A10F80B4 0B40AA0A E0AA0A20 07C07C07 C07C07C0 7C07C07C A80A80A0 0A20A20A
	+00321		00A10AA0 07F07F07 F07FF800 7F07F07F 07F07F07 F07FA70A E007F07F 07F07F07
	+00353		FF8007F0 7F07F07F 07F07FF8 0B40A40A E05E85E8 07C07C04 00A30E70 00000003
	+00385		142001F3 A3AE8000 20000198 65000AA0 A0A0A022 02200202 000C03C0 5A03000A
	+00417		00C02000 000000C0 00000000 02C04E02 000C03C0 4A02000C 03C04A02 000845C2
	+00449		221A0004 03C05A02 000000C0 0000000A 03C03805 000803C0 5A060004 05C06A05
	+00481		00000AC0 9A27000A 06C08A03 000608C0 9A050000 00C00000 000004C0 4A070000
	+00513		00C00000 00200000 00000020 00000000 00200000 00000020 00000000 00200000
	+00545		00000020 00000000 00200000 00000020 00000000 00200000 00000020 00000000
	+00577		00200000 00000020 00000000 00200000 00000020 00000000 00000000 00000000
	+00609		00000000 00000000 00000000 00000000 00000020 00002000 00200000 20000020
	+00641		00002000 00200000 00000000 00000000 00000000 00000000 00000000 00000000
	+00673		AE0B80A0 0A800000 00000000 07F07F00 0000B80F 80000000 07F07F00 0000AE0A
	+00705		2007F000 07F000B0 007F07F0 0007F000 07F07FB0 0A80AA00 005E45EC 07C00020
	+00737		00A301F0 00000023 00000000 00008000 20000000 000AAAAA AAAAAAAA AAAAAAAA
	+00769		00200000 00000020 00000000 00200000 00000020 00000000 00200000 00000020
	+00801		00000000 00200000 00000020 00000000 00200000 00000020 00000000 00200000
	+00833		00000020 00000000 00200000 00000020 00000000 00200000 00000020 00000000
	+00865		00200000 00000020 00000000 00200000 00000020 00000000 00200000 00000020
	+00897		00000000 00200000 00000020 00000000 00200000 00000020 00000000 00200000
	+00929		00000020 00000000 00200000 00000020 00000000 00200000 00000020 00000000
	+00961		20000020 00002000 00200000 20000020 00002000 00200000 20000020 00002000
	+00993		00200000 20000020

Run 1181

day 322

* * * * * * * END OF FILE 16 -- FILE CONTAINED 3032 BLOCKS

* * * * * * * START FILE 17

* * * * * * * END OF FILE 17 -- 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
16	42551	62294664	1895	0	0	0	0

2 FILES

73-078A-07A
IMP-5
SELECTED RATE & PHA (5 OST)
07/12/74 - 07/20/74

0-28955

```
$JOB  10:38:20
DATA IGNORED
$NOP  ***************** DUMP OF WTOUT-8 ************
$ASS IN MS5
$EXEC DPOCT7 BS
 INPUT TAPE ON MS5
 DATA INPUT     2 2 2
  FILE  1       RECORD   1        LENGTH    1952 BYTES
  (     0)  007363444301  040102657400  314401004457  002600000000  000000000000  000003010001  353444560403  250164320265
  (    48)  740000000000  000000000000  000000000000  000060000000  000010006004  200200007071  601170030000  502560117021
  (    96)  000030066006  500200001003  600450060000  701060065014  000040036005  501100003003  600350020000  100260035012
  (   144)  000000006000  000000005004  600650020000  300360075002  000000036004  500400007205  612373000000  500360035002
  (   192)  000040106007  300300001010  601150030000  700360045005  000040176002  721300003003  600350070000  002460237004
  (   240)  000070106007  503600006000  600300000000  400460035003  000020416005  701000000000  600000000000  510660301002
  (   288)  000030026003  501000001002  600350010000  700560055002  000060026003  500102400004  034000050240  000303400003
  (   336)  020000030000  000001000002  030000030100  000503400002  010000020000  000001000003  030000040220  000300000002
  (   384)  405040044110  407440204350  400040300174  017401740174  760001747600  017440714055  407241074073  410240534104
  (   432)  760001770177  017701777600  017776000177  017701775600  510051605160  460001770177  550001777600  017701770177
  (   480)  017701775500  540051605340  272027240174  017401010216  034700000000  000303010001  354144230404  310216070265
  (   528)  742000000000  000000000000  000000000000  000060000000  000010026003  500600000016  601150070000  503160107027
  (   576)  000000006000  000000001003  600450050000  700060032002  000061176074  532000004111  600670050000  200460055002
  (   624)  000001066005  700100006035  600470760000  000060000000  000030176007  100100000000  600000000000  000060000000
  (   672)  000000006000  000000003002  600470020000  000060000000  000070026003  500300004004  600650070000  000060000000
  (   720)  000010036004  500200006011  601050130000  400060002000  000030036005  500300000023  621610030000  000060000000
  (   768)  000030366036  501200002002  600350020000  000060000000  000000006000  000001000002  030000030100  000300000020
  (   816)  010000030000  000002600003  030000020040  000400000000  010000030240  000200400003  034000030040  000203000004
  (   864)  403440104100  416440244374  400440740174  017401740174  017401740174  017440734060  405540534052  407040754102
  (   912)  017701770177  017701777600  017776000177  017701770177  502053005060  504001770177  760076000177  760001770177
  (   960)  017701775400  520050605020  272427200174  017410000216  003700000000  000303010001  354643670403  260251670265
  (  1008)  744000000000  000000000000  000000000000  402660051002  000030026003  500200000003  600450040000  700260031001
  (  1056)  000050056004  700700002047  602470100000  105660227006  000000006000  000000005025  600470010000  300360045010
  (  1104)  000000006000  000000007000  600070000000  500060042001  000030006003  000000001012  601050300000  600060046002
  (  1152)  000040026004  501000000000  600000000000  101260113004  000070136011  500100005004  600570010000  300260045004
  (  1200)  000000006004  600200000000  600000000000  000060000000  000000006000  000000000003  600450010000  700760101001
  (  1248)  000051256011  701500004003  600450050000  000060000000  000000006000  000000400004  000000000100  000203000004
  (  1296)  006000030240  000501200003  030000020040  000402400004  004000050260  000200400004  020000030040  000303000004
  (  1344)  404040104030  413440304334  402440700174  017401740174  017401740174  017440714105  403140764044  405540764071
  (  1392)  017701775600  760076007600  560076000177  017701777600  504053404700  510001770177  017754000177  760001770177
  (  1440)  017701775500  520053405140  272427200174  017401010216  020300000000  000303010001  355343330403  260304460265
  (  1488)  746000000000  000000000000  000000000000  500360045002  000000006000  000000002007  601050040000  000360045002
  (  1536)  000040166010  700700004003  600450020000  100060046001  000060126013  504700006003  600550070000  000060000000
  (  1584)  000020036005  500300007005  600450160000  604060067002  000041736011  710300002003  600450040000  000260037001
  (  1632)  000050036005  500500004002  600450110000  206160077062  000070026004  501100007002  600350000000  600460045002
  (  1680)  000050026004  501100004056  601770250000  700260035003  000050006003  600100002336  601372230000  016161275227
  (  1728)  000060076016  100700004000  600560020000  200360045011  000000006000  000001000005  034000020000  000402000004
  (  1776)  000000030220  000301400003  030000030000  000403000003  000000060160  000400200003  000000000020  000401400004
  (  1824)  405040104054  413040044354  400440500174  760001740174  760001740174  760040724060  404241044053  405540634110
  (  1872)  017776000177  017701775600  760056007600  017701770177  520050404610  462001770177  560056000177  017701770177
  (  1920)  017701775240  524050205060  272427240174  017410000216  020300000000  0003
  FILE  1       RECORD   2        LENGTH    1952 BYTES
  (     0)  007400264301  040102657500  310401004457  002600000000  000000000000  000003010001  356043000403  260337250265
  (    48)  750000000000  000000000000  000000000000  633260307066  000050036004  500600002003  600350030000  000260035001
  (    96)  000060036004  100200003003  600350030000  300360035002  000000006000  000000006003  600530020000  000060000000
  (   144)  000020056005  100200000012  601270060000  000060000000  000050166013  700700000000  600000000000  101360105011
  (   192)  000000006000  000000005005  600370020000  300360045005  000000116004  700300000000  600000000000  400060042002
  (   240)  000000006000  000000001050  601470030000  600460055003  000040036004  500300003000  600400000000  000060000000
  (   288)  000060176004  700500005000  600050000000  300260025004  000000006000  000000400007  014000020000  000202400003
  (   336)  010000020240  000400400003  030000020000  000602000013  030000020240  000500000003  014000040340  000301000004
  (   384)  407040444110  416040344330  435440540174  017401745600  017401740174  760040454103  407640634050  406140754065
  (   432)  560001770177  017776007600  017776000177  017776000177  512050205000  514001770177  520076000177  017701777600
  (   480)  760001775200  540051205200  272427300174  017401010216  034700000000  000303010001  356542440404  310371010265
  (   528)  752000000000  000000000000  000000000000  700060032001  000040136004  705500002005  600650050000  000060000000
  (   576)  000060046004  500200004000  600400000000  400060001000  000020126005  702300006011  601350560000  000060000000
  (   624)  000040036004  500700002003  600450010000  700260035010  000000006000  000000004003  600510030000  100660075002
```

```
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(   720) 000040036003 711000001002 600350030000 000060000000 000060006004 600200000000 600000000000 200360035004
(   768) 000000006000 000000006002 600340050000 000560000000 700020036005 500200000003 714000020000 000402400002
(   816) 034000040100 000300200004 026000050340 000201000003 034000050140 001703000003 012000050300 000401400002
(   864) 403440004104 413040444000 400040460174 017401740174 017401740174 017440634062 407540364072 405740374037
(   912) 017701777600 017756005600 017776000177 017701770177 500051005160 461001770177 540055007600 017701770177
(   960) 017701777600 524050405200 273027340174 017410000216 003700000000 000303010001 357242100403 250021350265
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(  1200) 000040116007 515400003004 600450020000 000060000000 000000006000 000000004002 600270020000 200360045010
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(  1296) 000000050100 000203000003 012000020240 000301000003 000000020160 000502400003 010000050300 000300400005
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(  1440) 017701777600 524053405500 272427340174 017401010216 020300000000 000303010001 357741550403 260054130265
(  1488) 756000000000 000000000000 000000000000 030360547033 000000006000 000000005064 600770100000 200260045002
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(  1584) 000000006000 000000003005 600650020000 100060002000 000070026004 500700000000 600000000000 000060000000
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(  1680) 000050006003 000000000000 600000000000 100360045007 000000006000 000000006004 600450020000 000060000000
(  1728) 000010026003 500700006356 601510020000 600260045007 000031726006 700602400002 006000040300 000400400004
(  1776) 000000000040 000302600002 004000030240 000300000000 030000040000 000400000000 010000040240 000500000005
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(    96) 000060046004 700400006000 605060120000 000060000000 000000036004 500700007002 600450020000 500660075003
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(   432) 017776000177 017776000177 760001770177 017701770177 500050605400 540001770177 760001770177 017776000177
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(   576) 000070076007 100200007006 600510030000 000060000000 000020056001 700200000000 600000000000 600360045002
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(   720) 000040226016 501500003002 600730030000 000060000000 000060026004 700100005003 600770030000 300260035003
(   768) 000000026003 501200006003 600450020000 300260035010 000030036004 501000000000 020000030300 000401000003
(   816) 000000000040 000303600004 000000000000 000001600004 030000030000 000000000000 000000000000 000002000006
(   864) 506050605160 514046605120 506051400174 017476000174 017476000174 017451005140 514046005060 465051605040
(   912) 760001770177 017756000177 017776000177 017701777600 512053000177 550001770177 760076000177 017701770177
(   960) 017701775200 524051405000 272027240174 017410000216 003700000000 000303050003 211716450403 250054740375
(  1008) 574000000000 000000000000 000000000000 102160107007 000070036004 500600000000 600000000000 200060030000
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(  1296) 000000000000 000003400004 022000340000 000000000000 000000000000 000000000000 000000000000 000000000000
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(  1488) 576000000000 000000000000 000000000000 200360045002 000000046004 502000006003 600350110000 000060000000
(  1536) 000020156005 100100000000 600000000000 605160211002 000040026003 500400000000 600000000000 001660127004
(  1584) 000000006000 000000003003 600470020000 201260105047 000000036005 500100006004 600550030000 415260257012
(  1632) 000020026004 500300000000 600000000000 601160117006 000040046003 700000002037 601370020000 000060000000
(  1680) 000050036004 500100004105 600610010000 210460055003 000000046006 500200000000 600000000000 600260035021
(  1728) 000050036004 401100004003 600470040000 700260035003 000000006000 000000000000 000000000000 000000000000
(  1776) 032000020360 000500000000 000000000000 000000000000 000000000000 000000000000 036000040000 000000400003
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(  1920)  017701775400  520051005000  272027240174  017410000216  020200000000  0003
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(    96)  000030036006  500300000000  600000000000  000060000000  000050036005  000200003012  601370110000  100060030000
(   144)  000070136006  100200005002  600550030000  201160115047  000000226013  100400020000  000000000002  000000000000
(   192)  000200000000  000000020000  000000000002  000000000000  000200000000  000000020000  000000000002  000000000000
(   240)  000200000000  000000020000  000000000002  000000000000  000200000000  000000020000  000000000002  000000000000
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(   480)  017700005600  000050400000  272400000174  000010000216  100000000000  004300000000  000000004000  004000000000
(   528)  000052525252  525252525252  525252520002  000000000000  000200000000  000000020000  000000000002  000000000000
(   576)  000200000000  000000020000  000000000002  000000000000  000200000000  000000020000  000000000002  000000000000
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(   672)  000200000000  000000020000  000000000002  000000000000  000200000000  000000020000  000000000002  000000000000
(   720)  000200000000  000000020000  000000000002  000000000000  000200000000  000000020000  000000000002  000000000000
(   768)  000200000000  000000020000  000000000002  000000000000  000200000000  000010000000  100000001000  000010000000
(   816)  100000001000  000010000000  100000001000  000010000000  100000001000  000010000000  100000001000  000010000000
(   864)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(   912)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
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(  1008)  000052525252  525252525252  525252520002  000000000000  000200000000  000000020000  000000000002  000000000000
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(  1824)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(  1872)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(  1920)  000000000000  000000000000  000000000000  000010001000  100000000000  0041
FILE   1      # OF DATA RECORDS    4382    # SUCCESSFUL READS   4384
      # PERMANENT READ ERRORS   0      # ZERO BYTE ERRORS   0      # SHORT RECORDS   0      # UNDEFINED ERRORS   0
      # OF RECORDS RETRIED   0      TOTAL # OF RETRIES   0
FILE   2      RECORD    1    LENGTH    1952 BYTES
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(    48)  000052525252  525252525252  525252520002  000000000000  000200000000  000000020000  000000000002  000000000000
(    96)  000200000000  000000020000  000000000002  000000000000  000200000000  000000020000  000000000002  000000000000
(   144)  000200000000  000000020000  000000000002  000000000000  000200000000  000000020000  000000000002  000000000000
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(   240)  000200000000  000000020000  000000000002  000000000000  000200000000  000010000000  100000001000  000010000000
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(   384)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
(   432)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
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(912)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(960)	000000000000	000000000000	000000000000	000010001000	100000000000	004103050003	223707510403	260325330375
(1008)	634000000000	000000000000	000000000000	000060000000	000040006004	000000001003	600550020000	700660075002
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(1104)	000010006004	000000000000	600000000000	500560055001	000000006000	000000003000	600360010000	000060000000
(1152)	000070206011	700400005002	600450020000	000060000000	000000006000	000000000000	600000000000	000060000000
(1200)	000020416004	700400000003	600350040000	000060000000	000050036004	500200002002	600350050000	000060000000
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(1296)	000000000000	000000000000	000000000040	000300000000	014000060000	000000000000	022000200000	000000000000
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(1392)	017701777600	017701777600	760001770177	017701777600	530050405600	017701770177	017701770177	017701770177
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(1776)	100000001000	000003200003	000000000000	000002400006	100000001000	000000000000	100000000000	000001200020
(1824)	502051404610	460046104660	460050000174	017401740174	760076000174	017446705040	000000004610	510000000000
(1872)	760001770000	760076005600	000055000177	017700000177	524051205600	760000000177	760076000000	000000000000
(1920)	017701770177	550000005340	272027240174	017410000216	020300000000	0003		
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(96)	000200000000	000000020000	000000000000	400260045007	000000006000	000000007000	600000000000	600260045003
(144)	000030036003	500600002002	600350030002	000000000000	000200000000	000000020000	000000000002	000000000000
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(240)	000000006000	000000003003	600470010000	700260035005	000060036004	500200020000	000000000002	000000000000
(288)	000000036004	700200000000	600000000000	500460040003	000030036004	500100000000	100000001000	000000000000
(336)	000000000000	000010000000	100000001000	000001600022	000000000140	000400000000	100000000000	000000000000
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(432)	000000000177	017700000000	560001770177	000001770177	504000000000	760001770177	560000000177	000001770000
(480)	017700005400	000052405000	272000000000	017410001000	100000000000	000303050003	225606260403	260042230375
(528)	642000000000	000000000000	000000000000	102560107003	000060036004	501500004005	600750020000	000060000000
(576)	000000006000	000000000000	600000000000	500360035004	000030056004	500500000003	600470020000	000060000000
(624)	000040036006	700200002012	601270040000	100260045007	000060156023	100200000000	600000000000	304560137004
(672)	000000006000	000000006003	600450020000	000060000000	000030036003	500100001003	600470030000	700060036002
(720)	000050066006	700200002004	600550020000	100760125002	000070026003	500100000000	600000000000	304760077002
(768)	000020036004	500500007075	601770340000	600060042001	000030036003	500200000000	000000000000	000400000000
(816)	000000000000	000000000000	000000000260	000500000000	000000000000	000000000000	014000060000	000000000000
(864)	504051404640	460046205100	504051404640	017401740174	017401740174	017446705140	472050404650	534046205120
(912)	017701770177	760076007600	017701770177	760001770177	504050207600	560001770177	760076000177	017701770177
(960)	017701775600	560051205240	272027200174	017410000216	003700000000	000303050003	226305720403	260075020375
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(1056)	000000036005	500200007003	600450010000	501760077070	000000006000	000000000000	600000000000	000360061001
(1104)	000060256005	701200004036	600710030000	000660065001	000000056006	500400020000	000000000002	000000000000
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(1632)	000020046004	500500000000	600000000000	600260045002	000030036004	500300000000	600000000000	107260347021
(1680)	000062526001	700100000000	600000000000	300460221002	000000046022	100100007007	600750010000	500360035003
(1728)	000030036006	100200000000	600000000000	600260054003	000050026004	500302600005	000000000000	000000000000
(1776)	000000000000	000000000000	034000040300	000300000000	000000000000	000000000000	000000000000	000003400005
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(1872)	017701770177	017756007600	760001770177	017701770177	520050207600	560001770177	760076000177	017701770177
(1920)	017701775300	540050005060	272427200174	017410000216	020300000000	0003		

FILE 2 RECORD 2980 LENGTH 1952 BYTES

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(96)	000070046005	500600006313	626210020000	300360045002	000010136012	504000000140	600400030000	000060000000
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(240)	000000006000	000000000000	600000000000	100360045002	000070036003	500100005031	600370130000	300360045007
(288)	000070026003	500100006000	600030000000	300360055012	000030116005	100100400003	000000000000	000001400003
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(384)	473051604410	446444544410	477046100174	017401740174	017401740174	017444204434	445044544670	473044604530
(432)	017701770177	017701775400	017756000177	017701770177	520050405200	520001770177	760076000177	017701770177
(480)	017701775200	550051405340	270427200174	017401010216	034700000000	000303110002	373116250403	260043350475
(528)	202000000000	000000000000	000000000000	013660117021	000000006000	000000005003	600550100000	000060000000
(576)	000000026004	500200007002	600470000000	406760047076	000021136004	701000001000	600300000000	700260045010
(624)	000040066007	500100003003	600550020000	032360377025	000070126012	501300004004	600550020000	000060000000
(672)	000000116003	100100006017	601070100000	501760117010	000000006000	000000000007	600500010000	700460035003
(720)	000050026003	501700003014	601350070000	101260034014	000070626050	700600004003	600450130000	300460055002
(768)	000000006000	000000000000	600000000000	600460037004	000000006000	000000000000	010000050340	000400000000
(816)	000000000100	000400000000	000000000000	000002200002	030000040160	000203000005	000000000000	000001000005
(864)	441047004410	451444344500	443446000174	017401747600	017401740174	017445104400	473044444500	445045204454
(912)	760001770177	017776007600	560001777600	017776000177	502053405500	540001770177	760076000177	017701770177
(960)	017701775500	560051005340	271427200174	017410000216	003700000000	000303110002	373615720403	270076150475
(1008)	204000000000	000000000000	000000000000	100360044011	000000026004	700000005003	600450100000	300260035002
(1056)	000020036005	501000007051	600470040000	500460045005	000000006000	000000000000	600000000000	700360045006
(1104)	000000006000	000000004067	600551070000	000060000000	000000136013	504200006003	600450060000	400360055006
(1152)	000000006000	000000000077	601270200000	000060000000	000030126025	100200000000	600000000000	707360207020
(1200)	000000006000	000000003007	600510010000	200760141000	000000156014	702300007017	601210010000	000060000000
(1248)	000020026003	700100000010	600300020000	000060000000	000050076004	502200000000	000000020000	000001000003
(1296)	000000000000	000000000000	000000000240	000300000000	000000000000	000000000000	016000050300	000400000003
(1344)	474046404434	445045044504	446447400174	017401740174	017401740174	760044404430	451444004750	445444304504
(1392)	760076000177	017701770177	760001770177	017701770177	502050405500	540001770177	560001770177	017701770177
(1440)	017701775400	550053005100	271427100174	017401010216	020300000000	000303110002	374315360403	260130760475
(1488)	206000000000	000000000000	000000000000	200660115002	000000056006	500200006007	601010020000	507660227003
(1536)	000000006000	000000007077	600670100000	000060000000	000000006000	000000002004	600450070000	000360045001
(1584)	000000006000	000000000000	600000000000	300360045003	000072106007	700700007002	600440070000	400360045001
(1632)	000020036004	500300001012	601310010000	601360127006	000040646024	700200003003	600350100000	000560055002
(1680)	000060106016	100200005062	602050100000	300260035002	000010036004	500200007006	600570100000	400260035002
(1728)	000030106011	704100000000	600000000000	700360045004	000040006005	000002400003	000000000000	000003400003
(1776)	036000040100	000202400003	004000020000	000000000000	014000020000	000000000000	004000020140	000301000006
(1824)	471047004750	445445004504	442047100174	017401740174	017401740174	017447504444	452044244400	442044204404
(1872)	017701777600	017701770177	017701770177	017701770177	560050205500	524001770177	760076000177	017701770177
(1920)	017701775020	550053005100	271427200174	017410000216	020300000000	0003		

FILE 2 RECORD 2981 LENGTH 1952 BYTES

(0)	014612274311	040104752100	310401014511	002700000000	000000000000	000003110002	375015020403	260163560475
(48)	210000000000	000000000000	000000000000	200060050000	000010056007	500500000000	600000000000	000060000000
(96)	000030166010	300300002000	600400000000	000060000000	000050126013	701200002004	600450100000	000060000000
(144)	000070006006	200200006004	600450070000	306260101023	000000026010	100100000003	600450070000	500360045001
(192)	000030076005	100100001003	600450100000	600660057012	000050106003	700000004054	600470000000	100060046002
(240)	000000026004	500200006002	600350000000	000060000000	000000276027	700500000066	601270300000	000060000000
(288)	000030026003	000200002004	600550050000	000060000000	000060026003	500500000000	000000000000	000000000000
(336)	010000040000	001100000000	000000000000	000000000000	000000000300	001100000000	034000150000	000003000005
(384)	460046604420	444445044400	444046700174	760001740174	017476000174	017447404510	477044204630	441444344760
(432)	760001770177	760076005600	760076000177	760001770177	504050205200	550001770177	760001770177	760001770177
(480)	017701775300	520046105240	272027200174	017401010216	034700000000	000303110002	375514470403	260216370475
(528)	212000000000	000000000000	000000000000	415360037041	000010326002	700500000003	601270020000	600360035004
(576)	000040036004	500300000000	600000000000	701260047006	000060026003	501200003215	600772420000	100260035007
(624)	000000006000	000000005241	600471300000	500360045002	000000006000	000000000003	600550060000	000060000000
(672)	000000006000	000000002006	600750020000	000660035027	000060606020	701600004010	600750500000	200260041002
(720)	000000006000	000000000000	600000000000	400360041002	000030126011	503200001002	600450100000	600460045007
(768)	000050216010	100200002000	600100000000	100460055011	000070306017	701200000000	034000040200	000500000000
(816)	000000000000	000000000000	000000000000	000000000000	000000000000	000002200003	000000000000	000003600002
(864)	464047604740	474047604404	477046600174	017401740174	017401740174	760044004414	443445104760	440447604760
(912)	017701770177	017776005600	017701770177	017701770177	520050205400	560001770177	017701775600	017701770177
(960)	017701775600	540053005020	272027140174	017410000216	003700000000	000303110002	376214130403	250251200475
(1008)	214000000000	000000000000	000000000000	000060000000	000030766046	100600001003	600450060000	600060036001
(1056)	000050006004	000000002003	600550030000	101560047001	000073276041	725700000000	600000000000	306360117011

(1104)	000000006000	000000006022	601650160000	000060000000	000030006000	000000000000	600000000000	700360065003
(1152)	000060026004	501100002160	602271030000	000060000000	000073216010	713700004043	600640070000	200360035010
(1200)	000000036004	500200000000	600000000000	433060177014	000000006000	000000002004	600350020000	701360051002
(1248)	000040036004	500300000000	600000000000	032060117270	000070036004	500602000004	000000000000	000000000000
(1296)	014000040000	000002000003	000000020000	000003600002	022000050240	000201000006	000000000000	000000000000
(1344)	464046704740	444444504750	473046700174	017401740174	017401740174	760047104410	441044644414	442044244500
(1392)	760076007600	017776005600	017701770177	017701770177	504052400177	520001770177	540001770177	017701770177
(1440)	017701775300	560053405000	271427200174	017401010216	020300000000	000303110002	376713570403	260304000475
(1488)	216000000000	000000000000	000000000000	400260037001	000040146006	700500002003	600450020000	023261377214
(1536)	000000006000	000000000000	600000000000	500360035010	000070036004	500200006006	600540210000	000060000000
(1584)	000010036004	500700007003	600470110000	000060000000	000030006031	201000001003	600610010000	000460055002
(1632)	000000006000	000000003533	605775200000	100260045007	000000006000	000000007000	600460020000	500060046001
(1680)	000010026004	500700000131	600410020000	600160035004	000040006004	100000002003	600450020000	000060000000
(1728)	000060056006	300300004003	600450070000	205360041001	000000606012	724301400005	024000040000	000000000000
(1776)	000000000000	000000400003	000000000000	000000000000	000000030000	000000000000	020000020000	000000000000
(1824)	473047104760	440044304444	445044140174	760076000174	017401740174	017444344414	443447304400	440444244760
(1872)	017701770177	560001777600	760076000177	017701770177	500053005400	540001770177	560001770177	017701770177
(1920)	017701775400	540050005300	272027100174	017410000216	020300000000	0003		

FILE 2 # OF DATA RECORDS 2981 # SUCCESSFUL READS 2983

PERMANENT READ ERRORS 0 # ZERO BYTE ERRORS 0 # SHORT RECORDS 0 # UNDEFINED ERRORS 0

OF RECORDS RETRIED 1 TOTAL # OF RETRIES 1

$$

$NOTE EOJ 10:44:12

DUMP OF TAPE GOUT20 73-078A-07A D-43424

02/26/78 - 03/06/78

INPUT TAPE GOUT2 ON MT1
DATA INPUT HY NF 2 SR 1 1 1 SR 2 LAST 1

FILE 1 RECORD 1 LENGTH 1464BYTES

57

(0)	07922403	90082230	40664180	0C606400	00050000	00000000	039002F5	16381108	8291F223	C4000000
(40)	00000000	00000000	000600C1	6C080006	03C03A07	000015C0	BE0D000C	07C08A24	000807C0	B6040006
(80)	03C04A02	000202C0	4A02000E	07C04E02	000C00C0	64020006	00C04401	000203C0	5202000E	00C04C02
(120)	000C08C0	56020008	09C04002	000203C0	5A080000E	02C03A01	000000C0	0000000A	03C03202	000200C2
(160)	0C0A0000	00C04402	000E04C0	6A02000A	0CC0BA18	000602C0	4A020004	08C09A24	000000C0	4C02000C
(200)	2BC0DE0F	000600C0	4C020004	00C04000	000E03C0	4A07000C	18C1BE05	000602C0	4A050004	03C04A03
(240)	04000408	00050400	020A0003	04000408	00020000	0A030002	0E000806	00020E00	05060003	0E000206
(280)	00040C00	02040002	7AC7A87D	072872C7	107047F4	F8007C88	007C07C8	4007CF80	70170971	17167147
(320)	1671270F	A80B80F8	0F80B80B	00B80A80	07FF80F8	007FA10A	2093C920	07F07FA2	0AE0F80A	8007F07F
(360)	07F07FB8	0AC0A20A	405F05F4	07C07C03	F09E0E70	00000003	039002F5	661C1107	C0612223	C5000000
(400)	00000000	00000000	000003C0	5A080000	06C04001	000A04C0	5A010004	03C03A03	00009CC0	5813000E
(440)	00C04C02	000000C0	00000006	04C05A07	000000C0	00000000	04C05A09	000803C0	4A060008	03C04202
(480)	00049DC0	6E01000E	04C04A06	000000C0	00000008	02C03A07	000600C1	F4080000	04C05A06	000A00C0
(520)	3000000A	04C10605	000202C0	0E030002	04C22E08	000E00C0	4C02000A	03C05A07	000607C0	8E030000
(560)	00C04C02	000E03C0	5A010000	00C00000	000802C0	3A050004	03C05A03	000E03C0	4A08000C	15C05E03
(600)	0C000305	00050A00	04020002	08000300	00020500	04000004	0600040E	00020600	04000002	06000300
(640)	00040400	040C0004	78C7B47D	87207407	0C7107F4	F8088007	C07C07CF	80F80F80	70770970	F7167137
(680)	11711706	B00B8007	FF80B00F	80B80B80	07F07F07	FF80A30A	20944974	07F07FAC	0A10880A	80F8007F
(720)	07F07FB0	0B40A20A	005F45F0	07C07C20	009E01F0	00000003	039002F5	B6001108	82723223	C6000000
(760)	00000000	00000000	000803C0	4A030006	03C03A08	000003C0	4A020000	00C00000	000804C0	5A020006
(800)	02C04808	000200C0	4C02000E	05C04E14	000803C0	3A060008	04C06A03	000403C0	5A07000E	0CC08603
(840)	000A04C0	5A030006	5DC05E30	000405C0	62040008	08C09A11	000A02C0	3A020000	00C00000	000602C0
(880)	4A07000E	0CC0A603	000C08C0	7A06000A	0EC3D614	000600C0	40000002	03C04A02	000E05C0	5A020008
(920)	03C03A02	000601C0	2A000004	09C07E0E	000E00C2	4C090000	00C00000	000803C0	5A020004	09C06E08
(960)	04000200	00020200	04040002	02000200	00020000	04080006	0E000308	00030E00	05060005	0E000305
(1000)	00030E00	05060003	7C07B47D	07287447	14708700	F80F80F8	007C07C0	7C07CF80	70870B71	27187117
(1040)	17711714	F8088007	FF8007FF	8007FF80	07F07FF8	0B80A109	8892894C	07F07FAC	0AA0B80F	8007F07F
(1080)	07F07FB0	0B40A00A	105EC5F4	07C07C03	F09E0830	00000003	039002F6	05E41108	80414223	C700A00A
(1120)	0A000000	08800000	000E0BC0	4E0B000C	0BC03E01	000607C0	6A040006	02C04A06	00200000	00000020
(1160)	00000000	000A46C0	5E250006	08C0DA03	000203C0	4A06000E	00C03402	00200000	00000020	00000000
(1200)	00200000	00000020	00000000	000C00C0	44020006	05C08E03	000400C1	6C0C0000	D5C3EE27	000C06C0
(1240)	D6040008	02C03A07	000406C0	6A050002	02C04A04	000E03C0	5E040000	00C00C00	000000C0	00000002
(1280)	02C03A07	000EC6C0	7E0E000A	04C05A04	000804C0	7A030002	03C03A03	000000C0	00000000	03C03A03
(1320)	0C000304	00042000	00040006	0A000220	00002000	00020005	0800040E	00030700	02000002	0600050C
(1360)	00020500	020D0003	7CC7CC7E	87287407	107F4708	07CF8007	C07C07C8	8007CF80	71170F00	00007177
(1400)	1370C711	000000F8	0B800000	00840B00	07F07FF8	0B80A60A	1094494C	07F07FAC	0AE00008	0000007F
(1440)	07F07FB4	0B00AE0A	105F05F0	07C07C20	02000830	00000003				

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
1	3565	3565	1464	0	35	0	0	35	40

FILE 2 RECORD 2468 LENGTH 1464BYTES

65

(0)	052FC204	10082A4C	C0644188	0C208400	00050000	00000000	04100206	A7E81108	800812A4	CC000000
(40)	00000000	00000000	000093C0	6E2E0000	00C00000	000803C0	4A020002	02C21E02	000002C0	4A030000
(80)	00C00000	000604C0	5E010000	00C00000	000009C0	5A0A000E	00C08401	000000C0	00000006	08C07A0D
(120)	000203C0	4A070000	00C00000	000A06C0	02000000	00C00000	00041BC0	52000000	0BC3BE05	000A38C0
(160)	8E030000	00C00000	00040BC0	AA080000	00C04000	000CC1C0	AE120000	00C00000	000404C0	4A020002
(200)	03C02A08	000000C0	0000000A	04C05A02	000602C0	4A020000	05C04E13	000E22C0	5E100000	00C00000
(240)	01000404	0C030E00	02000000	0E000300	00000A00	03020002	08000300	00000C00	03020003	0600030E
(280)	00020600	020E0003	8A88BC8D	88B48988	948848A0	07C07C07	C07C07C0	7CF8007C	8C08BA89	88AA8B48
(320)	AE8A88BE	F8007FF8	007FB800	7FB80F80	F8007F07	F07FA40A	10AA0A00	07F07FB8	0B8007F0	7F07F07F
(360)	07F07FB0	0B00A10A	105F05EC	07C07C03	F09E0E70	00000003	04100206	F7CC1108	821C12A4	CD000000
(400)	00000000	00000000	00060CC0	5E0F0000	00C00000	000004C0	0A01000A	94C08E22	000803C0	4A080004
(440)	03C05A06	000E03C0	4A07000C	02C04A0A	000802C0	3A020004	04C04A05	000203C0	4A05000C	05C06203
(480)	000A30C0	6E050000	00C00006	000002C0	4A010008	03C04E02	000C03C0	3A020006	00C04E01	000403C0
(520)	4A04000E	0CC0D202	000C02C0	4A080000	00C00000	000000C0	00000000	17C0BE05	000C02C0	3A020006
(560)	03C04A02	00040400	52020000	04C05A01	000C03C0	4A03000A	27C08E07	000603C0	3E040000	00C00000

```
(   600)  0400050E  0004C400  03000002  02000301  00030400  050A0002  00000000  00030000  00000000  0300050A
(   640)  00030300  02000000  8B08C88F  C8908AC9  6096 8A4  C7C07C07  C07C07CF  8007C07C  8B68D68A  C8AC89C8
(   680)  B4880974  07F07F07  FF80F8C0  7FF80F80  07F07F07  F07FA00A  30A20A0C  07F07F07  FF8007F0  7F07F07F
(   720)  07F07FB4  0A80A40A  105F45EC  07C07C20  009E01F0  00000003  04100207  47801108  842D12A4  CE000000
(   760)  00000000  00000000  000004C0  5A020008  06C08A02  000402C0  4A080004  00C04000  00003CC0  5E01000A
(   800)  0AC08205  00081CC0  6E060002  00C04000  000222C0  AE08000C  26C05E07  000A04C0  4A070000  00C00000
(   840)  000200C0  4000000C  08C05001  00080 8C0  BA030006  09C08A05  000403C0  4A02000E  04C05A05  000000C0
(   880)  00000000  00C00000  000208C0  D2020000  00C00000  000000C0  00000006  14C25611  000406C0  4E150000
(   920)  03C04E02  000E00C0  38000008  00C03C01  000429C0  72020000  02C04A0A  000C3BD5  5202000A  54C42E32
(   960)  00000000  00000000  00080004  00000506  00020000  00020004  0E000305  00030000  00000002  00000002
(  1000)  00020000  00020004  8808CC8C  08A08808  8888097C  07C07C07  C07C07CF  8007C07C  8C68B089  68BA89A8
(  1040)  A88BA8A2  07F07F07  F07F07F8  00B80F80  07F07F07  FF80A50A  20B80AA0  07F07FB0  007F07F0  7F07F07F
(  1080)  07F07FAC  0AC0A80A  305F05E8  07C07C04  009E0830  00000003  04100207  97951108  81FC02A4  CF000000
(  1120)  00000000  00000000  000000C0  00000000  04C05A05  000003C0  4A06000A  03C04A06  000803C0  6A010000
(  1160)  00C00000  000E00C0  2000000C  02C04A02  00080DC0  CA1A0006  0CC04202  00021BC0  CE100000  00C00000
(  1200)  000A20C0  5E060004  00C03000  000000C0  0000000E  02C04A02  000C08C0  8A040000  00C00000  000016C1
(  1240)  1202000C  03C04A07  000C3CC0  DE180006  03C03A02  000404C0  5A020000  02C03A06  000C02C0  5A02000A
(  1280)  0BC08A16  000411C0  EA0E0000  00C00000  000C03C0  4A030008  05C09A07  00041FC0  8E010000  02C04A09
(  1320)  0400040E  00030600  06000002  0200050E  00030200  04000000  0000000C  00030000  04080004  02000300
(  1360)  00000000  000A0003  8888C88C  C8C08948  A4920880  07CF8007  C07CF80F  8007C07C  8AC8B08A  48BA8BA8
(  1400)  A68A889E  B0007F07  F07FF80F  80F8007F  07F07FC7  F07FAA0A  00A10988  07F07FB8  007F07F0  7F07F07F
(  1440)  07F07FAE  0B40A50A  205F45F0  07C07C20  009E0830  00000003
```

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
2	2468	2469	1464	0	48	0	0	48	54

EOJ DUMP STOPPED AFTER FILE 2 # OF PERMANENT READ ERRORS 0

START TIME 03/16/82 18:52:24 STOP TIME 03/16/82 18:54:35

```
$$
$ASS IN TD3
$EXE TPDUMP PS
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Imp-J D56957
9/23/79 – 10/00/79

DUMP OF TAPE D56957

INPUT TAPE D56957 ON TU
DATA INPUT H9 NF 2 SR 1 1 1 SR 2 LAST 1

FILE 1 RECORD 1 LENGTH 1464BYTES

(0)	02C8C830	A70B6226	C06E4218	3470B300	00050000	00000000	00000000	00008000	20000000	000AAAAA
(40)	AAAAAAAA	AAAAAAAA	00200000	00000020	00000000	00200000	00000020	00000000	00200000	00000020
(80)	00000000	00200000	00000020	00000000	00200000	00000020	00000000	00200000	00000020	00000000
(120)	00200000	00000020	00000000	00200000	00000020	00000000	00200000	00000020	00000000	00200000
(160)	00000020	00000000	00200000	00000020	00000000	00200000	00000020	00000000	00200000	00000020
(200)	00000000	00200000	00000020	00000000	00200000	00000020	00000000	00200000	00000020	00000000
(240)	20000020	00002000	00200000	20000020	00002000	00200000	20000020	00002000	00200000	20000020
(280)	00002000	00200000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(320)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(360)	00000000	00000000	00000000	00000020	02002000	00000021	00000000	00008000	20000000	000AAAAA
(400)	AAAAAAAA	AAAAAAAA	00200000	00000020	00000000	00200000	00000020	00000000	00200000	00000020
(440)	00000000	00200000	00000020	00000000	00200000	00000020	00000000	00200000	00000020	00000000
(480)	00200000	00000020	00000000	00200000	00000020	00000000	00200000	00000020	00000000	00200000
(520)	00000020	00000000	00200000	00000020	00000000	00200000	00000020	00000000	00200000	00000020
(560)	00000000	00200000	00000020	00000000	00200000	00000020	00000000	00200000	00000020	00000000
(600)	20000020	00002000	00200000	20000020	00002000	00200000	20000020	00002000	00200000	20000020
(640)	00002000	00200000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(680)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(720)	00000000	00000000	00000000	00000020	02002000	00000021	00000000	00008000	20000000	000AAAAA
(760)	AAAAAAAA	AAAAAAAA	00200000	00000020	00000000	00200000	00000020	00000000	00200000	00000020
(800)	00000000	00200000	00000020	00000000	00200000	00000020	00000000	00200000	00000020	00000000
(840)	00200000	00000020	00000000	00200000	00000020	00000000	00200000	00000020	00000000	00200000
(880)	00000020	00000000	00200000	00000020	00000000	00200000	00000020	00000000	00200000	00000020
(920)	00000000	00200000	00000020	00000000	00200000	00000020	00000000	00200000	00000020	00000000
(960)	20000020	00002000	00200000	20000020	00002000	00200000	20000020	00002000	00200000	20000020
(1000)	00002000	00200000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1040)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1080)	00000000	00000000	00000000	00000020	02002000	00000021	10A00117	5E551102	C046A222	6F3A0008
(1120)	08008808	80088088	00200000	00000020	00000000	00200000	00000020	00000000	00200000	00000020
(1160)	00000000	000A0040	4C020006	0040C001	00020040	FC0D0000	00404002	000C0041	8C0C0008	00403400
(1200)	00040040	6C020000	00400400	000C0040	4C020008	00405C02	00040041	64070000	00416C0C	000E0040
(1240)	3C010000A	0041EC0A	00060040	5C0F0002	0041DC0A	000E0040	3C020000A	00404C02	00060040	5C020002
(1280)	00485C02	00000040	3C010000C	00403C01	00080041	D4080004	00404C02	00000041	AC0B000C	00415406
(1320)	20000020	00002000	00030004	0A000400	00040900	04010002	08000020F	000207C0	040E0005	06000400
(1360)	00020400	040D0003	53C54054	454C5505	4C54C540	8BC8EC8D	C8E880C8	DC8F88E4	C0000055	A5595575
(1400)	58557556	00078278	38750008	888B088C	A309A8A7	0980000A	AC0007AE	07F07F00	083EA10A	20B40A30
(1440)	00007F00	0A80A80A	E0000400	00007C20	02000830	00000003				

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
1	2942	2942	1464	0	0	0	0	0	0

FILE 2 RECORD 3334 LENGTH 1464BYTES

(0)	088D2831	20086ADA	8B644219	362B3C00	00050000	00000000	11200357	23BC110C	C5E402AD	A8000000
(40)	00000000	00000000	000600C0	40000002	00C04C01	000E04C0	4A05000A	00C04C02	000600C0	4C010000
(80)	22C15E02	00000000	3C010000E	000C03C01	000C00C0	5C020000	00C00000	00000000	44020000C	00C04C02
(120)	0000000C	64020004	00C04C02	00000000	4C020001E	000C05C01	00008000	54020006	00C05C02	000200C0
(160)	14010000E	00C04000	000A03C0	4A030006	00C03C01	00020000	4C020000	04C0F605	000A00C0	3C010008
(240)	00000000	00000000	001F0003	02000500	00000A00	05000002	05000040A	00050000	00000000	08000500
(280)	00000000	00000000	70871470	C7087147	14708714	B4C0A8B0	0AA0A60B	00AC0AA0	71571371	771B7207
(320)	0F72671C	A30A30A3	0A40B40B	40A00AA0	07F07F07	FF80AC0A	A0B00B00	07F07FB8	0B8007FF	8007F07F
(360)	07F07FB8	0B4A0A0B	4C5B05B1	07C07C14	009C0E70	00000003	11200357	73A18000	200002AD	A9000A00
(400)	8000B022	00000202	000E000C0	3C010000A	00C06C02	000600C0	3C020002	00C03401	000C00C0	3C01000A
(440)	0LC04C01	00060000	3C010002	000C03C02	000E00C0	3C020000A	00C03000	00080000	5C020004	00C05C02
(480)	00000000	4C020000	000C4000	00080900	9E250004	000C04C02	00000000	5C020000	00C05C02	00200000
(520)	00000020	00000000	00200000	00000020	00000000	00200000	00000020	00000000	00200000	00000020
(560)	00000000	000C00C0	48000008	00C04C02	000402C0	3A010000E	00C05401	000C00C0	5C020008	00C03402

60 FILES

*1ST FILE IS EOF

73-078A-07B

IMP-5

[OSP]

5,46 MIN. AVG. COUNT DUMP OF D-28960

10/30/73 — 06/25/74

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$JOB  12:23:37
$ASS IN MS5
$NOP  ************** OCTAL DUMP OF X-389 (FILES 2 & 60) ******************
$AVF IN
$EXEC DPOCT7 BS
 INPUT TAPE ON MS5
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  FILE  1      RECORD    1      LENGTH    2640 BYTES
  (    0)  017366070000  345740100100  000000050520  406500000447  000004041000  100010001000  100010007160  563700000000
  (   48)  000000000000  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)  006240650000  051600000377  017200750347  003502020202  002254060002  720277777400  000000001763  740000033644
  (  240)  176374000000  002017637400  000002001763  740000000021  174370000000  046617437000  007441371743  700000000000
  (  288)  174370000000  000017437000  000002051743  700000000520  174370000000  025617437000  000000221743  700000000003
  (  336)  174370000000  000017437000  000000000220  011300003457  401001000001  450500624065  000005160000  037701720075
  (  384)  034700350202  020200225406  000431427777  740000000000  200400000005  025317637400  000000171763  740000000205
  (  432)  176374000000  001220040000  000005242004  000000763240  200400000000  000020040000  000000002004  000000000206
  (  480)  200400000000  051420040000  000003512004  000000000021  200400000000  000220040000  000000002004  000000000000
  (  528)  022064230000  345740100100  000151050062  406500000521  000003770172  007503470035  020202020022  540600041163
  (  576)  777774000000  000003607400  000105570360  740000000007  036074000000  004703607400  000000040340  700000000107
  (  624)  034070000015  530703407000  000000000340  700000000001  034070000000  003503407000  000001250340  700000000045
  (  672)  034070000000  000503407000  000000000340  700000000000  034070000000  000002213251  000034574010  010000015405
  (  720)  006640650000  052100000377  017200750347  003502020202  002254060003  060277777400  000000000741  700000012325
  (  768)  034070000000  000203407000  000000600340  700000000003  030060000000  011207016000  003326160000  000000000000
  (  816)  000000000000  000000000000  000000000000  000000000000  070160000000  010407016000  000000060701  600000000006
  (  864)  070160000000  000007016000  000000000222  156200003457  401001000001  600500644065  000005240000  037601720075
  (  912)  034700350202  020200225406  000205017777  740000000000  074170000000  451307417000  000000050741  700000000065
  (  960)  074170000000  000407016000  000002470701  600000332216  000000000000  000000000000  000000000701  600000000075
  ( 1008)  070160000000  023007016000  000000630701  600000000006  070160000000  000007016000  000000000701  600000000000
  ( 1056)  022300720000  345740100100  000164050070  406500000524  000003760172  007403470035  020202020022  541100021144
  ( 1104)  777774000000  000003607400  000027660360  740000000005  036074000000  003103607400  000000070340  700000000102
  ( 1152)  034070000015  510703407000  000000000340  700000000001  034070000000  003403407000  000001200340  700000000032
  ( 1200)  034070000000  001003407000  000000000340  700000000000  034070000000  000002234720  000034574010  010000016705
  ( 1248)  006240650000  052700000376  017200750347  003502020202  002254060002  506677777400  000000001763  740000010411
  ( 1296)  176374000000  001217637400  000002051763  740000000016  174370000000  054017437000  007423371743  700000000000
  ( 1344)  174370000000  000117437000  000001721743  700000000530  174370000000  011317437000  000000251743  700000000002
  ( 1392)  174370000000  000017437000  000000000224  323100003457  401001000001  730500624065  000005270000  037601720075
  ( 1440)  034700350202  020200225406  000214707777  740000000000  176374000001  124217437000  000000121743  700000000163
  ( 1488)  176374000000  001620040000  000005102004  000000761240  200400000000  000120040000  000000022004  000000000214
  ( 1536)  200400000000  060017437000  000001442004  000000000032  200400000000  000220040000  000000001743  700000000000
  ( 1584)  022515410000  345740100100  000177050062  406500000532  000003760172  007503470035  020202020022  540600017501
  ( 1632)  777774000000  000020040000  000105462004  000000000011  200400000000  016720040000  000000152004  000000000535
  ( 1680)  200400000076  314020040000  000000042004  000000000001  200400000000  020220040000  000005432004  000000000111
  ( 1728)  200400000000  002120040000  000000002004  000000000000  200400000000  000002260052  000034574010  010000020305
  ( 1776)  006240650000  053200000376  017200750347  003502020202  002254060001  705077777400  000000002004  000000010177
  ( 1824)  200400000000  001620040000  000001722004  000000000021  200400000000  055020040000  007643402004  000000000001
  ( 1872)  200400000000  000220040000  000002032004  000000000471  200400000000  013720040000  000000242004  000000000003
  ( 1920)  200400000000  000020040000  000000000226  636200003457  401001000002  070500624065  000005360000  037501720075
  ( 1968)  034700350202  020200225406  000141657777  740000000000  176374000001  126017637400  000000171763  740000000211
  ( 2016)  176374000000  001420040000  000005032004  000000764240  174370000000  000220040000  000000002004  000000000203
  ( 2064)  174370000000  051620040000  000001532004  000000000034  174370000000  000017437000  000000002004  000000000000
  ( 2112)  022746720000  345740100100  000213050062  406500000536  000003750173  007603470035  020202020026  540400015562
  ( 2160)  777774000000  000020040000  000107542004  000000000016  200400000000  016420040000  000000132004  000000000531
  ( 2208)  200400000076  314020040000  000000002004  000000000001  200400000000  021620040000  000004772004  000000000141
  ( 2256)  200400000000  002320040000  000000042004  000000000000  200400000000  000002303203  000034574010  010000021705
  ( 2304)  006240650000  054100000375  017300750347  003502020202  002654060002  454177777400  000000002004  000000011704
  ( 2352)  200400000000  001620040000  000001632004  000000000017  200400000000  046220040000  007622402004  000000000003
  ( 2400)  200400000000  000020040000  000002122004  000000000607  200400000000  016220040000  000000312004  000000000003
  ( 2448)  200400000000  000020040000  000000000231  151300003457  401001000002  230500624065  000005440000  037501730074
  ( 2496)  034700350202  020200265411  000205307777  740000000000  200400000001  261020040000  000000122004  000000000162
  ( 2544)  200400000000  001220040000  000005652004  000000761640  200400000000  000020040000  000000022004  000000000211
  ( 2592)  200400000000  050320040000  000001412004  000000000040  200400000000  000220040000  000000002004  000000000000
  FILE  1      RECORD   59      LENGTH    2640 BYTES
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(0)	022324730000	346340100100	010366050062	406500004055	000006070213	010103470036	020202020125	537400020510
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(96)	200400000114	744020040000	000000172004	000000000003	200400000000	023520040000	000005552004	000000005115
(144)	200400000000	344620040000	000000262004	000000000001	200400000000	000002241003	000034634010	010001037205
(192)	006240650000	405500000607	021301000347	003602020202	012553770001	451000037526	000000002004	000000534510
(240)	200400000000	176620040000	000006202004	000000000365	200400000000	057720040000	011454402004	000000000012
(288)	200400000000	003120040000	000002312004	000000000514	200400000000	577520040000	000034112004	000000000021
(336)	200400000000	000120040000	000000000224	731400003463	401001000103	760500624065	000040560000	061002130077
(384)	034700350202	020201255401	000151107777	740000000000	200400000055	415020040000	000017362004	000000000610
(432)	200400000000	037720040000	000005272004	000001146440	200400000000	000520040000	000000002004	000000000225
(480)	200400000000	060220040000	000063232004	000000003422	200400000000	003020040000	000000002004	000000000000
(528)	022556240000	346340100100	010402050062	406500004056	000006100213	010103470035	020202020125	537400015501
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(672)	200400000000	331120040000	000000212004	000000000002	200400000000	000002264135	000034634010	010001040605
(720)	006240650000	405700000610	021301000347	003502020202	012553770002	051000037126	000000002004	000000552310
(768)	200400000000	173020040000	000006022004	000000000374	200400000000	054620040000	011410402004	000000000006
(816)	200400000000	000120040000	000002362004	000000000546	200400000000	616720040000	000032762004	000000000024
(864)	200400000000	000020040000	000000000227	244500003463	401001000104	120500624065	000040570000	061002130100
(912)	034700360202	020201255377	000175100005	212600000000	200400000050	317020040000	000016042004	000000000615
(960)	200400000000	041120040000	000005422004	000001141040	200400000000	001420040000	000000022004	000000000226
(1008)	200400000000	053520040000	000052112004	000000003252	200400000000	003220040000	000000012004	000000000000
(1056)	023007550000	346340100100	010416050062	406500004060	000006100213	010003470035	020202020125	537700017501
(1104)	000410660000	000020040000	005063102004	000000001675	200400000000	061520040000	000003642004	000000000575
(1152)	200400000113	304020040000	000000102004	000000000004	200400000000	026220040000	000005742004	000000005510
(1200)	200400000000	316620040000	000000342004	000000000001	200400000000	000002307266	000034634010	010001042205
(1248)	006240650000	406000000610	021301000347	003602020202	012553770002	305000044445	000000002004	000000636020
(1296)	200400000000	163420040000	000005522004	000000000357	200400000000	061120040000	011300402004	000000000007
(1344)	200400000000	000220040000	000002322004	000000000545	200400000001	031220040000	000040622004	000000000053
(1392)	200400000000	000120040000	000000000231	557600003463	401001000104	260500624065	000040620000	061102130100
(1440)	034700360202	100001255377	000070670003	754100000000	026054000011	416602605400	000002460260	540000000074
(1488)	024050000000	004002405000	000001020240	500000137205	024050000000	000202405000	000000000240	500000000025
(1536)	024050000000	007102405000	000013520240	500000000505	024050000000	000202405000	000000000240	500000000000
(1584)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1632)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1680)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1728)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
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(1824)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1872)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
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(2016)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(2064)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
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(2160)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
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(2256)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(2304)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(2352)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(2400)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(2448)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(2496)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(2544)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(2592)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000

FILE 1 # OF DATA RECORDS 69 # SUCCESSFUL READS 70

PERMANENT READ ERRORS 0 # ZERO BYTE ERRORS 0 # SHORT RECORDS 0 # UNDEFINED ERRORS 0

OF RECORDS RETRIED 0 TOTAL # OF RETRIES 0

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$$
$AVF IN 59
$EXEC DPOCT7 BS
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INPUT TAPE ON MS5
DATA INPUT 1 1 1

FILE 1	RECORD 1	LENGTH	2640 BYTES					
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(96)	140300000051	203014030000	000000001403	000000000003	140300000000	014614030000	000004111403	000000001421
(144)	140300000000	014614030000	000000121403	000000000000	140300000000	000000452323	000042554250	730075521100
(192)	006245270000	605100000550	021601010347	003702030203	014053740003	746777777400	000000002004	000000101672
(240)	200400000000	001220040000	000000672004	000000000024	200400000000	050320040000	006664402004	000000000000
(288)	200400000000	000120040000	000001522004	000000000442	200400000000	176420040000	000001752004	000000000016
(336)	200400000000	000020040000	000000000046	063400004255	425073007552	150000624527	000060520000	055002160101
(384)	034700370203	020301405374	000364467777	740000000000	200400000011	725020040000	000000202004	000000000074
(432)	200400000000	001320040000	000004752004	000000667440	200400000000	000020040000	000000032004	000000000201
(480)	200400000000	051520040000	000024042004	000000000205	200400000000	001320040000	000000002004	000000000000
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(624)	200400000066	524020040000	000000022004	000000000000	200400000000	022420040000	000005312004	000000002154
(672)	200400000000	020320040000	000000162004	000000000002	200400000000	000000475455	000042554250	730075522500
(720)	006245270000	605400000551	021601010347	003702030203	014053740003	104677777400	000000002004	000000133732
(768)	200400000000	002120040000	000001162004	000000000007	200400000000	044620040000	006670402004	000000000002
(816)	200400000000	000220040000	000002212004	000000000534	200400000000	255220040000	000001642004	000000000007
(864)	200400000000	000120040000	000000000050	376500004255	425073007552	310000624527	000060550000	055102160101
(912)	034700370203	020301405374	000234617777	740000000000	200400000014	434220040000	000000252004	000000000101
(960)	200400000000	001320040000	000005252004	000000666440	200400000000	000420040000	000000012004	000000000170
(1008)	200400000000	051120040000	000030242004	000000000215	200400000000	002720040000	000000002004	000000000000
(1056)	005122750000	425542507300	755235000062	452700006055	000005510216	010103470037	020302030140	537400025467
(1104)	777774000000	000020040000	001461302004	000000000022	200400000000	010420040000	000000122004	000000000540
(1152)	200400000067	004020040000	000000002004	000000000001	200400000000	020020040000	000004742004	000000003020
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(1248)	006245270000	605700000552	021601010347	003702030203	014053740003	646777777400	000000002004	000000157634
(1296)	200400000000	001720040000	000001042004	000000000014	200400000000	051420040000	006676402004	000000000001
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(1392)	200400000000	000120040000	000000000052	711600004255	425073007552	450000624527	000060570000	055202160101
(1440)	034700370203	020301405374	000274467777	740000000000	200400000015	116220040000	000000272004	000000000075
(1488)	200400000000	001320040000	000004732004	000000666640	200400000000	000220040000	000000032004	000000000226
(1536)	200400000000	052020040000	000031232004	000000000217	200400000000	002320040000	000000002004	000000000000
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(1632)	777774000000	000020040000	001664222004	000000000024	200400000000	006720040000	000000232004	000000000444
(1680)	200400000065	604020040000	000000002004	000000000003	200400000000	021420040000	000004772004	000000003470
(1728)	200400000000	024320040000	000000342004	000000000000	200400000000	000000543737	000042554250	730075525500
(1776)	006245270000	606000000552	021601010347	003702030203	014053740003	304677777400	000000002004	000000201720
(1824)	176374000000	002617637400	000000732004	000000000013	200400000000	046720040000	006702402004	000000000000
(1872)	200400000000	000420040000	000001572004	000000000500	200400000000	367320040000	000002312004	000000000027
(1920)	200400000000	000320040000	000000000055	224700004255	425073007552	610000624527	000060620000	055202160101
(1968)	034700370203	020301405374	000270507777	740000000000	176374000020	460620040000	000000302004	000000000064
(2016)	200400000000	001220040000	000004522004	000000667240	174370000000	000120040000	000000012004	000000000216
(2064)	174370000000	043720040000	000037062004	000000000240	174370000000	003517437000	000000002004	000000000000
(2112)	005605570000	425542507300	755265000062	452700006062	000005520216	010103470037	020302030140	537400035450
(2160)	777774000000	000020040000	002253442004	000000000026	200400000000	010420040000	000000112004	000000000507
(2208)	200400000066	744017437000	000000012004	000000000002	200400000000	020120040000	000005162004	000000004246
(2256)	200400000000	030217437000	000000412004	000000000001	200400000000	000000567070	000042554250	730075527100
(2304)	006245270000	606300000553	021601010347	003702030203	014053740003	445077777400	000000001763	740000231326
(2352)	176374000000	001517637400	000001041763	740000000010	200400000000	052120040000	006664402004	000000000001
(2400)	200400000000	000320040000	000002062004	000000000437	200400000000	437620040000	000003542004	000000000045
(2448)	200400000000	000020040000	000000000057	540000004255	425073007552	750000624527	000060640000	055302160101
(2496)	034700370203	020301405374	000300507777	740000000000	200400000024	071020040000	000000252004	000000000077
(2544)	200400000000	000420040000	000005372004	000000664440	200400000000	000120040000	000000022004	000000000164
(2592)	200400000000	050520040000	000046632004	000000000265	200400000000	005620040000	000000002004	000000000000
FILE 1	RECORD 65	LENGTH	2640 BYTES					
(0)	030401050000	426042507300	765004000062	452700000454	000007000216	010103470037	020302030140	537400030450
(48)	777774000000	000020040000	000136502004	000000000006	200400000000	005020040000	000000022004	000000000501
(96)	200400000067	104020040000	000000032004	000000000002	200400000000	022220040000	000005422004	000000000147
(144)	200400000000	004120040000	000000012004	000000000000	200400000000	000003046415	000042604250	730076501000
(192)	006245270000	045400000700	021601010347	003702030203	014053740002	044777777400	000000002004	000000011413
(240)	200400000000	001520040000	000000742004	000000000016	200400000000	051520040000	006722402004	000000000000
(288)	200400000000	000020040000	000002042004	000000000470	200400000000	013020040000	000000322004	000000000000

```
(  336)  200400000000  000020040000  000000000305  472500004260  425073007650  140000624527  000004560000  070002160101
(  384)  034700370203  020301405374  000244667777  740000000000  200400000001  246020040000  000000142004  000000000067
(  432)  200400000000  001320040000  000005412004  000000672240  200400000000  000220040000  000000002004  000000000215
(  480)  200400000000  053520040000  000001532004  000000000033  200400000000  000020040000  000000002004  000000000000
(  528)  030632360000  426042507300  765020000062  452700000456  000007000216  010103470037  020302030140  537400040447
(  576)  777774000000  000020040000  000142222004  000000000015  200400000000  011220040000  000000122004  000000000532
(  624)  200400000067  144020040000  000000012004  000000000002  200400000000  014120040000  000005412004  000000000147
(  672)  200400000000  003020040000  000000012004  000000000000  200400000000  000003071546  000042604250  730076502400
(  720)  006245270000  045700000700  021601010347  003702030203  014053740001  644777777400  000000002004  000000012704
(  768)  200400000000  001420040000  000000702004  000000000010  200400000000  047020040000  006730402004  000000000001
(  816)  200400000000  000120040000  000002042004  000000000514  200400000000  016420040000  000000472004  000000000000
(  864)  200400000000  000020040000  000000000310  005600004260  425073007650  300000624527  000004610000  070002160101
(  912)  034700370203  020301405374  000121437777  740000000000  200400000001  275520040000  000000112004  000000000056
(  960)  200400000000  001520040000  000005102004  000000670640  200400000000  000120040000  000000012004  000000000173
( 1008)  200400000000  046720040000  000002032004  000000000040  200400000000  000120040000  000000002004  000000000000
( 1056)  031063670000  426042507300  765034000062  452700000461  000007000216  010103470037  020302030140  537400032467
( 1104)  777774000000  000020040000  000137272004  000000000014  200400000000  006620040000  000000142004  000000000471
( 1152)  200400000067  304020040000  000000022004  000000000002  200400000000  021320040000  000005022004  000000000150
( 1200)  200400000000  004120040000  000000032004  000000000000  200400000000  000003114677  000042604250  730076504000
( 1248)  006245270000  046200000677  021601010347  003702030203  014053740001  320777777400  000000002004  000000013426
( 1296)  200400000000  001520040000  000000752004  000000000012  200400000000  045420040000  006730402004  000000000002
( 1344)  200400000000  000120040000  000002022004  000000000514  200400000000  017620040000  000000442004  000000000004
( 1392)  200400000000  000020040000  000000000312  320700004260  425073007650  440000624527  000004620000  067702160101
( 1440)  034700370203  020301405374  000120667777  740000000000  156334000001  113315232400  000000071523  240000000057
( 1488)  154330000000  001114431000  000003731443  100000533131  154330000000  000214431000  000000021443  100000000154
( 1536)  160340000000  040415433000  000001411443  100000000041  154330000000  000316034000  000000001543  300000000000
( 1584)  031315200000  426042507300  765050000062  452700000464  000006770216  010110000037  020302030140  537400023465
( 1632)  777774000000  000004010000  000024730340  700000000003  034070000000  001503607400  000000010340  700000000114
( 1680)  034070000014  130703407000  000000000340  700000000000  034070000000  002604010000  000001400441  100000000047
( 1728)  034070000000  001203407000  000000000401  000000000000  044110000000  000000026657  000042614250  730076513500
( 1776)  006245270000  047600000677  021601011000  003702030203  014053740001  712377777400  000000000260  540000001407
( 1824)  022044000000  000002204400  000000070140  300000000001  024050000000  007102405000  001051050300  600000000000
( 1872)  024050000000  000002405000  000000160441  100000000131  024050000000  001202405000  000000040300  600000000000
( 1920)  044110000000  000002405000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
( 1968)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
( 2016)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
( 2064)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
( 2112)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
( 2160)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
( 2208)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
( 2256)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
( 2304)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
( 2352)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
( 2400)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
( 2448)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
( 2496)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
( 2544)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
( 2592)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
FILE    1        # OF DATA RECORDS    65        # SUCCESSFUL READS   66
        # PERMANENT READ ERRORS    0        # ZERO BYTE ERRORS   0        # SHORT RECORDS    0        # UNDEFINED ERRORS   0
          # OF RECORDS RETRIED    0        TOTAL # OF RETRIES   0
```

$$
$REW LO

DUMP OF TAPE S01

Unp-J
Lockheed Data PHA Tapes
D-65099
9/22/81 - 9/30/81
73-078A-07A

INPUT TAPE S01 ON TB1
DATA INPUT H9 NF=2 FL=2 1 1

FILE 1 RECORD 1 LENGTH 1464BYTES

(0)	07D24770	900F1372	C06E42CC	7580EF00	00050000	00000000	1090030E	240810F9	81EB3137	2C3A0A08
(40)	888008A0	8008808A	00200000	00000020	00000000	00200000	00000020	00000000	00200000	00000020
(80)	00000000	000000C1	AC09000C	00C1C408	000804C1	16060004	00C1BC0B	000200C0	3C01000C	00C0FC0D
(120)	000A09C0	8A200006	00C1EC0A	000200C0	9C0E000E	00C00C01	000A00C0	3C020006	00C26C0A	00200000
(160)	00000020	00000000	00200000	00000020	00000000	000200C0	3C020000	00C03A05	000C00C0	DC0D0008
(200)	00C03C01	000403C0	5A030000	00C1CC0B	000000C0	0000000A	00C1A407	000600C0	EC0D0002	00C13C0C
(240)	20000020	00002000	000D0004	0200050B	00040200	040B0005	03000320	00002000	00080004	00000206
(280)	00020F00	03060003	65C66066	86646586	48648648	AC0A10A2	0A50AE0A	10A80AA0	00000066	166A0000
(320)	0066A660	0009A800	09B8000A	A0000A80	07FF80F8	007F000B	40000000	07F07F00	0804AA0B	0007FB80
(360)	00007F00	0B00A00A	C0000594	00000004	02000E70	00000003	1090030E	73EC10FA	03DF0137	2D000000
(400)	00000000	00000000	000E00C1	9408000A	03C04602	000600C1	9C0B0002	00C1EC0A	000000C1	0C0C000A
(440)	00C1C408	000600C1	4C0D0004	3EC04E2C	000000C2	1C0A000A	03C04A02	000800C0	CC0D0004	00C1AC03
(480)	000200C1	0C0D000C	00C04C02	000A03C1	36060004	00C1AC0A	000200C0	4402000E	00C16C0D	000800C2
(520)	9C090006	00C04C0E	000200C0	0400000E	00C27C07	000A00C1	2C0D0008	00C1BC0A	000400C0	DC0D0000
(560)	00C0CC0D	000C00C0	4C0B0008	00C2AC08	000400C0	7C080002	03C11606	000C00C0	6C0E000A	00C0BC0E
(600)	0E000306	00030C00	02040003	0C000205	00040A00	03020003	0A000303	00020800	04000002	09000400
(640)	00030600	020E0003	65066466	06686586	4C644640	A40B40A5	0988A10A	40A40A20	66667066	C66A6706
(680)	65667668	9F899898	0990AA0A	C0B00AE0	F80B80F8	007FB00B	80783785	F8007F8F	A8FEB40A	8007F07F
(720)	07F07FB8	0AA0AC0A	00594598	07C07C20	009E01F0	00000003	1090030E	C3D010F9	C1945137	2E00A002
(760)	82800000	08800000	00060380	4A080002	00812C0D	000E0080	7C0E000A	0080FC0D	00060081	0C0D0002
(800)	00829C09	00000080	8C0F0008	00803C05	00060082	3C0A0002	02803A02	00200000	00000020	00000000
(840)	00200000	00000020	00000000	00000080	EC0D000C	00804C07	00080080	3C010004	00803C01	00020080
(880)	BC0E000C	00800C00	00200000	00000020	00000000	00020880	9A2A000E	00804C02	000C0080	5C0E0006
(920)	00814C0B	00040080	0C00000C	00802C01	000C0081	1C0D0006	03814606	00040080	3C010000	00816407
(960)	0700030E	00040600	140C0004	04000320	00002000	000A0003	0200030B	00042000	000A0002	01000308
(1000)	00060000	03080003	65865C66	46686586	4C64064C	A30AA0A0	0AE0A30A	10AA0B40	66A66700	00006716
(1040)	6566966B	99000000	09B8B000	00000B00	B00F8007	F07FA80B	4078B87F	07F07F80	98DC000A	80000F80
(1080)	07F07FAC	007FA00B	40598594	07C07C04	009E0830	00000003	1090030F	13B510FA	43882137	2F000000
(1120)	20200000	00000000	000A0240	3A06000A	00403000	00060F43	32030000	00405C10	000C0040	3C01000A
(1160)	0041BC0B	00060340	3A010002	05407E04	000E0040	4C01000C	00424C09	00080042	8C090004	02403A02
(1200)	00000040	3000000A	00403C02	00080040	30000004	00404C02	00000040	3C01000C	0041EC0A	00080042
(1240)	2C080000	00400000	00026040	AE6C000E	0E40DE03	000A0040	4C020004	00403C01	00020040	AC0E000E
(1280)	05407E06	000A0240	4A080008	00403C05	00200000	00000020	00000000	000C0040	7C0E0008	0040BC0E
(1320)	0E000206	00040E00	06060004	0C000404	00020C00	03040005	0D000503	00020B00	02030005	0A000300
(1360)	00032000	00000002	65C66466	C6646546	4C64C64C	AA0A00A4	0A00AE0A	10A50A20	66E66A66	C6696656
(1400)	7066C66E	9C0A5099	0000B40A	80AA0000	B00F80F8	007FB00B	4078887D	07F07F8F	48F8AE0A	C0F80F80
(1440)	07F07FB4	0B40AA0B	00598594	07C07C20	009E0830	00000003				

FILE 1 RECORD 1974 LENGTH 1464BYTES

(0)	04EE7670	D00F1759	006442CC	7580EF00	00050000	00000000	10D001ED	267910F9	82926175	90000000
(40)	00000000	00000000	000000C0	00000000	00C00000	000200C0	5C02000C	03C03A03	000A0DC0	7E090006
(80)	0CC32E05	000200C2	4C0A000C	00C1DC0A	000000C0	00000006	02C03E02	000214C0	52020000	00C06C02
(120)	000000C0	00000006	0CC04E03	00040AC0	6E060000	00C00000	000A69C0	7E030000	00C00000	000422C0
(160)	72010000	02C04A09	000E04C0	5E02000A	00C03000	000000C0	00000002	10C03E0A	000000C0	00000008
(200)	03C04832	00041DC1	2E090004	04C05A09	000000C0	0000000A	00C27C09	000600C0	44020000	00C00000
(240)	0200030C	00060200	03080005	02000508	00060000	05080002	0E000307	00040E00	03070006	0F000305
(280)	00020C00	03040002	74875074	872C7287	18728744	07CB00B8	0B8007CF	8007CB80	74874C74	A74574C7
(320)	4A74A743	B00B00F8	0F8007F0	7F07FB00	07F07F07	F07FB40F	8093088A	07F07F99	8980F80B	80B8007F
(360)	07F07FB0	0B00AE0A	0067467C	07C07C04	009E0E70	00000003	10D001ED	765D8000	20000175	910000A0
(400)	20202002	02200200	000E00C1	9C0B000A	00C04000	000603C0	4A070000	00C00000	000004C0	6E02000E
(440)	03C05E02	000000C0	00000004	02C04803	000000C0	0000000E	4EC11E18	000A22C0	42020006	00C04C01
(480)	000200C1	BC0C000E	00C04000	000A00C1	2C0C0006	00C15C0C	000400C0	30000000	1CC04E22	000C00C2
(520)	7C080000	00C00000	0002B7D8	1E630000	19C04E12	000A00C1	AC0B000A	05C06E02	00200000	00000020
(560)	00000000	00200000	00000020	00000000	00200000	00000020	00000000	00200000	00000020	00000000
(600)	0C000504	00030B00	03020003	0B000501	00040800	05000003	08000600	00040600	050E0004	20000020
(640)	00002000	00200000	00000000	00000000	00000000	00000000	00000000	00000000	73F74774	873D7437
(680)	44000000	F80B80A8	0000F80F	80B80000	07F07F07	F000B00B	00964890	07F0009A	89D0F800	0007F000
(720)	07F07FB8	0A80A100	00678678	07C07C20	009E01F0	00000023	00000000	00008000	20000000	000AAAAA

```
(  760)  AAAAAAAA  AAAAAAAA  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020
(  800)  00000000  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020  00000000
(  840)  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020  00000000  00200000
(  880)  00000020  00000000  00200000  00000020  00000000  00200000  00000000  00200000  00000020  00000020
(  920)  00000000  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020  00000000
(  960)  20000020  00002000  00200000  20000020  00002000  00200000  20000020  00002000  00200000  20000020
( 1000)  00002000  00200000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
( 1040)  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
( 1080)  00000000  00000000  00000000  00000020  02002000  00000021  00000000  00008000  20000000  000AAAAA
( 1120)  AAAAAAAA  AAAAAAAA  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020
( 1160)  00000000  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020  00000000
( 1200)  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020  00000000  00200000
( 1240)  00000020  00000000  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020
( 1280)  00000000  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020  00000000
( 1320)  20000020  00002000  00200000  20000020  00002000  00200000  20000020  00002000  00200000  20000020
( 1360)  00002000  00200000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
( 1400)  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
( 1440)  00000000  00000000  00000000  00000020  02002000  00000021
```

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
1	1974	1975	1464	0	0	0	0	0	0

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FILE      2  RECORD      1  LENGTH    1464BYTES
(    0)  05518770  DA0F1760  C02E42CD  7580EF00  00050000  00000000  00000000  00008000  20000000  000AAAAA
(   40)  AAAAAAAA  AAAAAAAA  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020
(   80)  00000000  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020  00000000
(  120)  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020  00000000  00200000
(  160)  00000020  00000000  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020
(  200)  00000000  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020  00000000
(  240)  20000020  00002000  00200000  20000020  00002000  00200000  20000020  00002000  00200000  20000020
(  280)  00002000  00200000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(  320)  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(  360)  00000000  00000000  00000000  00000020  02002000  00000021  00000000  00008000  20000000  000AAAAA
(  400)  AAAAAAAA  AAAAAAAA  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020
(  440)  00000000  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020  00000000
(  480)  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020  00000000  00200000
(  520)  00000020  00000000  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020
(  560)  00000000  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020  00000000
(  600)  20000020  00002000  00200000  20000020  00002000  00200000  20000020  00002000  00200000  20000020
(  640)  00002000  00200000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(  680)  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(  720)  00000000  00000000  00000000  00000020  02002000  00000021  10D00214  78BD8000  20000176  0E3AAAAA
(  760)  AAA2AAAA  AAAAAAAA  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020
(  800)  00000000  000000C0  3C01000C  0EC0B202  00200000  00000020  00000000  00200000  00000020  00000000
(  840)  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020  00000000  00200000
(  880)  00000020  00000000  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020
(  920)  00000000  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020  00000000
(  960)  20000020  00002000  000C0003  20000020  00002000  00200000  20000020  00002000  00200000  20000020
( 1000)  00002000  00200000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
( 1040)  00000000  00000000  00000000  00000000  F8000000  00000000  00000000  00000000  00000000  00000000
( 1080)  00000000  00000000  00000000  00000020  02002000  00000023  00000000  00008000  20000000  000AAAAA
( 1120)  AAAAAAAA  AAAAAAAA  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020
( 1160)  00000000  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020  00000000
( 1200)  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020  00000000  00200000
( 1240)  00000020  00000000  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020
( 1280)  00000000  00200000  00000020  00000000  00200000  00000020  00000000  00200000  00000020  00000000
( 1320)  20000020  00002000  00200000  20000020  00002000  00200000  20000020  00002000  00200000  20000020
( 1360)  00002000  00200000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
( 1400)  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
( 1440)  00000000  00000000  00000000  00000020  02002000  00000021
```

273

```
FILE      2  RECORD    2975  LENGTH    1464BYTES
(    0)  04F33B71  100F1B79  806402CD  7580EF00  00050000  00000000  111001EF  035D10F9  C2FD51B7  98000000
(   40)  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(   80)  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
```

73-078A-07B [OSP]
IMP-5
60 FILES
5.46 MIN AVG, COUNT RATE
OVPE OF D-28961
06/26/74 - 02/22/75

```
$JOB  14:02:48
DATA IGNORED
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FILE 1 # OF DATA RECORDS 86 # SUCCESSFUL READS 87

PERMANENT READ ERRORS 0 # ZERO BYTE ERRORS 0 # SHORT RECORDS 0 # UNDEFINED ERRORS 0

OF RECORDS RETRIED 0 TOTAL # OF RETRIES 0

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INPUT TAPE ON MS6
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( 1392)  200400000000  000020040000  000000000146  436000005065  451167017472  150000625266  000021140000  064002300101
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( 1488)  200400000000  001720040000  000005452004  000000744640  200400000000  000120040000  000000012004  000000000222
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( 1824)  200400000000  002020040000  000001102004  000000000010  200400000000  055020040000  007450402004  000000000001
( 1872)  200400000000  000320040000  000002222004  000000000500  200400000000  101520040000  000000762004  000000000005
( 1920)  200400000000  000020040000  000000000150  751100005065  451167017472  310000625266  000021200000  064002300101
( 1968)  034700370203  020202105374  000234477777  740000000000  146314000005  462014631400  000000161463  140000000074
( 2016)  144310000000  001314431000  000004451443  100000572131  144310000000  000114431000  000000021443  100000000155
( 2064)  144310000000  037314431000  000006001443  100000000077  144310000000  000214431000  000000001443  100000000000
( 2112)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
( 2160)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
( 2208)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
( 2256)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
( 2304)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
( 2352)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
( 2400)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
( 2448)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
( 2496)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
( 2544)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
( 2592)  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000  000000000000
FILE    1        # OF DATA RECORDS    64        # SUCCESSFUL READS  65
        # PERMANENT READ ERRORS    0        # ZERO BYTE ERRORS   0        # SHORT RECORDS    0        # UNDEFINED ERRORS  0
          # OF RECORDS RETRIED    0        TOTAL # OF RETRIES   0
```

$$
$EOJ 14:07:28