745

ISEE 1

Plasma Wave

1-Sec DECOM (Need Calibration Date)

77-102A-07K

ISEE 1

Plasma Waves

1-S DECOM Data (Needs Calibration Data)

77-102A-07K

This data set consists of 7 Optimem optical disks, created in Files-11 format using SOAR 4.2, written in VAX binary. Directory listings of the disks are included on the following pages. A sample FORMAT.SFD and VOLDESC.SFD have also been printed. The KV and C numbers, along with the time spans and label names follow. The label names for each disk are listed for side 1 and 2 respectively.

KV	C	Label Name	Time Span
KV000019		ISEEAPWI0001	10/22/77 - 02/08/78
		ISEEAPWI0002	02/09/78 - 06/25/78
KV000020		ISEEAPWI0003	06/26/78 - 11/16/78
		ISEEAPWI0004	11/16/78 - 04/10/79
KV000021		ISEEAPWI0005	04/11/79 - 08/29/79
		ISEEAPWI0006	08/30/79 - 01/22/80
KV000022		ISEEAPWI0007	01/23/80 - 06/11/80
		ISEEAPWI0008	06/12/80 - 11/05/80
KV000023		ISEEAPWI0009	11/05/80 - 12/31/80
		ISEEAPWI0010	10/15/82 - 03/15/82
KV000024		ISEEAPWI0011	03/16/83 - 08/17/83
		ISEEAPWI0012	08/18/83 - 12/25/83
KV000025		ISEEAPWI0013	01/01/86 - 05/03/86
		ISEEAPWI0014	05/04/86 - 07/15/86

Directory Listing of KV000019, Side 1
Label Name = [redacted]

Directory 1DUB62:[000000]

000000.DIR;1	1	3-OCT-1991	09:07:46.59
BACKUP.SYS;1	0	3-OCT-1991	09:07:46.59
BADBLK.SYS;1	16	3-OCT-1991	09:07:46.59
BADLOG.SYS;1	1	3-OCT-1991	09:07:46.59
BITMAP.SYS;1	32	3-OCT-1991	09:07:46.59
CONFIG.SYS;1	1	3-OCT-1991	09:07:55.64
CONTIN.SYS;1	0	3-OCT-1991	09:07:46.59
CORIMG.SYS;1	0	3-OCT-1991	09:07:46.59
INDEXF.SYS;1	1075	3-OCT-1991	09:07:46.59
ISEEAPWI.DIR;1	8	3-OCT-1991	09:07:53.59
VOLSET.SYS;1	0	3-OCT-1991	09:07:46.59

Total of 11 files, 1134 blocks.

Directory 1DUB62:[ISEEAPWI]

FORMAT.SFD;1	23	1-MAY-1992	12:04:42.73
ISEEAPWI.77295;1	4120	3-OCT-1991	09:10:35.27
ISEEAPWI.77296;1	12339	12-AUG-1991	16:36:20.94
ISEEAPWI.77297;1	9105	3-OCT-1991	10:44:54.02
ISEEAPWI.77298;1	8046	3-OCT-1991	10:46:39.49
ISEEAPWI.77299;1	10382	3-OCT-1991	10:48:04.12
ISEEAPWI.77300;1	22595	12-AUG-1991	17:19:15.39
ISEEAPWI.77301;1	12229	12-AUG-1991	17:29:07.65
ISEEAPWI.77302;1	11700	12-AUG-1991	17:36:12.31
ISEEAPWI.77303;1	13350	12-AUG-1991	17:43:54.07
ISEEAPWI.77304;1	25247	12-AUG-1991	18:01:16.57
ISEEAPWI.77305;1	8208	12-AUG-1991	18:10:29.21
ISEEAPWI.77306;1	9242	12-AUG-1991	18:15:30.43
ISEEAPWI.77307;1	8415	12-AUG-1991	18:20:15.48
ISEEAPWI.77308;1	9259	12-AUG-1991	18:25:10.65
ISEEAPWI.77309;1	8137	12-AUG-1991	18:30:04.28
ISEEAPWI.77310;1	34681	5-AUG-1991	12:11:57.32
ISEEAPWI.77311;1	32284	13-AUG-1991	17:42:00.33
ISEEAPWI.77312;1	17631	14-AUG-1991	09:19:11.72
ISEEAPWI.77313;1	9065	14-AUG-1991	09:26:14.00
ISEEAPWI.77314;1	8852	14-AUG-1991	09:31:23.22
ISEEAPWI.77315;1	8601	14-AUG-1991	09:36:37.17
ISEEAPWI.77316;1	9003	14-AUG-1991	09:42:14.52
ISEEAPWI.77317;1	8974	14-AUG-1991	09:48:03.33
ISEEAPWI.77318;1	9239	14-AUG-1991	09:53:49.65
ISEEAPWI.77319;1	15559	14-AUG-1991	10:03:03.23
ISEEAPWI.77320;1	35802	14-AUG-1991	10:34:52.07
ISEEAPWI.77321;1	32913	14-AUG-1991	11:09:31.33
ISEEAPWI.77322;1	9082	14-AUG-1991	11:21:44.12
ISEEAPWI.77323;1	8374	14-AUG-1991	11:27:01.30
ISEEAPWI.77324;1	9613	14-AUG-1991	11:32:47.64
ISEEAPWI.77325;1	7979	14-AUG-1991	11:37:38.65
ISEEAPWI.77326;1	8486	14-AUG-1991	11:42:36.02
ISEEAPWI.77327;1	8464	14-AUG-1991	15:17:50.28
ISEEAPWI.77328;1	9187	14-AUG-1991	15:22:54.59
ISEEAPWI.77329;1	28052	14-AUG-1991	15:43:05.42
ISEEAPWI.77330;1	34351	14-AUG-1991	16:13:50.86

ISEEAPWI.77331;1	24359	14-AUG-1991	16:36:38.85
ISEEAPWI.77332;1	8795	14-AUG-1991	16:45:36.92
ISEEAPWI.77333;1	11903	14-AUG-1991	16:52:28.57
ISEEAPWI.77334;1	9277	14-AUG-1991	16:58:38.11
ISEEAPWI.77335;1	8622	14-AUG-1991	17:03:40.50
ISEEAPWI.77336;1	9029	14-AUG-1991	17:08:51.82
ISEEAPWI.77337;1	9273	14-AUG-1991	17:14:08.33
ISEEAPWI.77338;1	8880	14-AUG-1991	17:19:26.92
ISEEAPWI.77339;1	7931	14-AUG-1991	17:24:10.19
ISEEAPWI.77340;1	7843	14-AUG-1991	17:29:21.74
ISEEAPWI.77341;1	33776	14-AUG-1991	17:54:20.45
ISEEAPWI.77342;1	36426	15-AUG-1991	17:01:25.72
ISEEAPWI.77343;1	18714	15-AUG-1991	17:19:40.94
ISEEAPWI.77344;1	9223	15-AUG-1991	17:28:08.97
ISEEAPWI.77345;1	15413	15-AUG-1991	17:36:55.37
ISEEAPWI.77346;1	36814	15-AUG-1991	18:06:44.82
ISEEAPWI.77347;1	35419	15-AUG-1991	18:49:37.83
ISEEAPWI.77348;1	14180	15-AUG-1991	19:07:26.49
ISEEAPWI.77349;1	8926	15-AUG-1991	19:14:22.19
ISEEAPWI.77350;1	7561	15-AUG-1991	19:18:51.57
ISEEAPWI.77351;1	9057	15-AUG-1991	19:23:53.38
ISEEAPWI.77352;1	8878	15-AUG-1991	19:29:14.94
ISEEAPWI.77353;1	9039	15-AUG-1991	19:34:25.31
ISEEAPWI.77354;1	9201	15-AUG-1991	19:39:33.04
ISEEAPWI.77355;1	7202	15-AUG-1991	19:43:48.79
ISEEAPWI.77356;1	9237	16-AUG-1991	10:34:34.29
ISEEAPWI.77357;1	11563	16-AUG-1991	10:41:32.88
ISEEAPWI.77358;1	9254	16-AUG-1991	10:47:55.84
ISEEAPWI.77359;1	9139	16-AUG-1991	10:53:46.07
ISEEAPWI.77360;1	9295	16-AUG-1991	10:59:18.68
ISEEAPWI.77361;1	9187	16-AUG-1991	11:04:40.64
ISEEAPWI.77362;1	8077	16-AUG-1991	11:09:29.12
ISEEAPWI.77363;1	9285	16-AUG-1991	11:14:42.69
ISEEAPWI.77364;1	9412	16-AUG-1991	11:20:27.08
ISEEAPWI.77365;1	37083	16-AUG-1991	11:50:39.14
ISEEAPWI.78001;1	36993	16-AUG-1991	12:26:49.99
ISEEAPWI.78002;1	15430	16-AUG-1991	12:42:58.67
ISEEAPWI.78003;1	9285	16-AUG-1991	12:49:59.61
ISEEAPWI.78004;1	9981	16-AUG-1991	12:55:49.00
ISEEAPWI.78005;1	9101	16-AUG-1991	13:01:36.69
ISEEAPWI.78006;1	8498	16-AUG-1991	13:07:40.78
ISEEAPWI.78007;1	6418	16-AUG-1991	13:12:52.06
ISEEAPWI.78008;1	9278	16-AUG-1991	13:20:22.01
ISEEAPWI.78009;1	8756	16-AUG-1991	13:25:38.15
ISEEAPWI.78010;1	8929	16-AUG-1991	15:38:02.78
ISEEAPWI.78011;1	11339	16-AUG-1991	15:44:46.06
ISEEAPWI.78012;1	36818	16-AUG-1991	16:16:23.12
ISEEAPWI.78013;1	36502	16-AUG-1991	16:52:31.12
ISEEAPWI.78014;1	12539	16-AUG-1991	17:07:36.02
ISEEAPWI.78015;1	9271	16-AUG-1991	17:14:16.53
ISEEAPWI.78016;1	11081	16-AUG-1991	17:23:28.22
ISEEAPWI.78017;1	9034	17-AUG-1991	10:32:56.25
ISEEAPWI.78018;1	9228	16-AUG-1991	17:46:49.15
ISEEAPWI.78019;1	8238	16-AUG-1991	17:51:41.07
ISEEAPWI.78020;1	9163	16-AUG-1991	17:56:45.13
ISEEAPWI.78021;1	8496	16-AUG-1991	18:01:48.27
ISEEAPWI.78022;1	9244	16-AUG-1991	18:06:59.97
ISEEAPWI.78023;1	11458	16-AUG-1991	18:13:27.43
ISEEAPWI.78024;1	36797	17-AUG-1991	16:46:53.12
ISEEAPWI.78025;1	34587	17-AUG-1991	18:22:55.09

```
ISEEAPWI.78026;1                12666  17-AUG-1991 18:35:44.92
ISEEAPWI.78027;1                 9094  17-AUG-1991 18:41:38.95
ISEEAPWI.78028;1                11064  17-AUG-1991 18:47:36.51
ISEEAPWI.78029;1                 8969  17-AUG-1991 18:53:07.68
ISEEAPWI.78030;1                 8971  17-AUG-1991 18:58:03.25
ISEEAPWI.78031;1                10368  17-AUG-1991 19:03:34.54
ISEEAPWI.78032;1                 8527  17-AUG-1991 19:08:41.80
ISEEAPWI.78033;1                 9027  17-AUG-1991 19:13:26.84
ISEEAPWI.78034;1                 8687  17-AUG-1991 19:18:12.23
ISEEAPWI.78035;1                13797  17-AUG-1991 19:25:38.32
ISEEAPWI.78036;1                35470  17-AUG-1991 19:53:44.76
ISEEAPWI.78037;1                37048  17-AUG-1991 20:30:35.14
ISEEAPWI.78038;1                11760  17-AUG-1991 20:44:39.61
ISEEAPWI.78039;1                 9223  17-AUG-1991 20:50:40.30
VOLDESC.SFD;1                      59   1-MAY-1992 11:58:16.86

Total of 112 files, 1577056 blocks.

Grand total of 2 directories, 123 files, 1578190 blocks
```

Directory Listing of KV000019, Side 2
Label Name = ISEEAPWI0002

Directory 1DUB62:[000000]

000000.DIR;1	1	6-NOV-1991	09:12:54.06
BACKUP.SYS;1	0	6-NOV-1991	09:12:54.06
BADBLK.SYS;1	16	6-NOV-1991	09:12:54.06
BADLOG.SYS;1	1	6-NOV-1991	09:12:54.06
BITMAP.SYS;1	32	6-NOV-1991	09:12:54.06
CONFIG.SYS;1	1	6-NOV-1991	09:13:01.57
CONTIN.SYS;1	0	6-NOV-1991	09:12:54.06
CORIMG.SYS;1	0	6-NOV-1991	09:12:54.06
INDEXF.SYS;1	1075	6-NOV-1991	09:12:54.06
ISEEAPWI.DIR;1	10	6-NOV-1991	09:13:00.42
OSECURE.SYS;1	0	6-NOV-1991	09:13:07.82
VOLSET.SYS;1	0	6-NOV-1991	09:12:54.06

Total of 12 files, 1136 blocks.

Directory 1DUB62:[ISEEAPWI]

FORMAT.SFD;2	23	1-MAY-1992	12:04:42.73
ISEEAPWI.78040;1	8283	17-AUG-1991	20:55:30.28
ISEEAPWI.78041;1	9228	18-AUG-1991	13:03:04.87
ISEEAPWI.78042;1	7407	18-AUG-1991	13:07:41.46
ISEEAPWI.78043;1	9696	18-AUG-1991	13:12:43.25
ISEEAPWI.78044;1	9240	18-AUG-1991	13:18:14.20
ISEEAPWI.78045;1	9045	18-AUG-1991	13:23:20.55
ISEEAPWI.78046;1	9225	18-AUG-1991	13:28:30.00
ISEEAPWI.78047;1	11688	18-AUG-1991	13:34:51.46
ISEEAPWI.78048;1	33258	18-AUG-1991	15:31:22.57
ISEEAPWI.78049;1	32012	18-AUG-1991	15:59:26.80
ISEEAPWI.78050;1	11064	18-AUG-1991	16:10:58.90
ISEEAPWI.78051;1	9266	18-AUG-1991	16:16:53.00
ISEEAPWI.78052;1	10882	18-AUG-1991	16:22:48.39
ISEEAPWI.78053;1	9261	18-AUG-1991	16:28:36.75
ISEEAPWI.78054;1	9074	18-AUG-1991	16:34:04.18
ISEEAPWI.78055;1	9130	18-AUG-1991	16:39:27.95
ISEEAPWI.78056;1	9246	18-AUG-1991	16:44:57.43
ISEEAPWI.78057;1	8768	18-AUG-1991	16:50:01.45
ISEEAPWI.78058;1	8534	18-AUG-1991	16:54:43.76
ISEEAPWI.78059;1	15462	18-AUG-1991	17:02:51.24
ISEEAPWI.78060;1	35984	18-AUG-1991	18:30:00.96
ISEEAPWI.78061;1	35539	18-AUG-1991	19:03:38.74
ISEEAPWI.78062;1	9763	18-AUG-1991	19:15:15.66
ISEEAPWI.78063;1	9271	18-AUG-1991	19:20:31.80
ISEEAPWI.78064;1	11463	18-AUG-1991	19:26:57.76
ISEEAPWI.78065;1	8907	18-AUG-1991	19:32:47.73
ISEEAPWI.78066;1	8378	18-AUG-1991	19:37:48.92
ISEEAPWI.78067;1	8766	18-AUG-1991	19:42:38.14
ISEEAPWI.78068;1	8871	18-AUG-1991	19:47:33.40
ISEEAPWI.78069;1	8900	18-AUG-1991	19:52:35.10
ISEEAPWI.78070;1	8943	18-AUG-1991	19:57:42.82
ISEEAPWI.78071;1	18529	18-AUG-1991	20:07:56.96
ISEEAPWI.78072;1	31337	18-AUG-1991	20:32:22.80
ISEEAPWI.78073;1	32227	18-AUG-1991	21:02:16.52
ISEEAPWI.78074;1	7487	19-AUG-1991	11:09:10.78

ISEEAPWI.78075;1	7649	19-AUG-1991	11:13:25.14
ISEEAPWI.78076;1	8080	19-AUG-1991	11:17:55.70
ISEEAPWI.78077;1	8828	19-AUG-1991	11:22:40.76
ISEEAPWI.78078;1	7700	19-AUG-1991	11:27:07.13
ISEEAPWI.78079;1	9012	19-AUG-1991	11:31:56.51
ISEEAPWI.78080;1	9160	19-AUG-1991	11:37:09.91
ISEEAPWI.78081;1	8785	19-AUG-1991	11:42:29.39
ISEEAPWI.78082;1	9277	19-AUG-1991	11:47:59.76
ISEEAPWI.78083;1	15340	19-AUG-1991	11:56:34.94
ISEEAPWI.78084;1	32982	19-AUG-1991	12:21:38.23
ISEEAPWI.78085;1	31634	19-AUG-1991	12:50:01.71
ISEEAPWI.78086;1	9701	19-AUG-1991	13:01:15.30
ISEEAPWI.78087;1	9132	19-AUG-1991	13:06:48.75
ISEEAPWI.78088;1	12241	19-AUG-1991	13:13:31.62
ISEEAPWI.78089;1	9270	19-AUG-1991	13:19:49.13
ISEEAPWI.78090;1	7652	19-AUG-1991	18:25:22.67
ISEEAPWI.78091;1	8165	19-AUG-1991	18:29:43.92
ISEEAPWI.78092;1	9686	19-AUG-1991	18:34:52.41
ISEEAPWI.78093;1	11913	19-AUG-1991	18:41:33.04
ISEEAPWI.78094;1	9256	19-AUG-1991	18:47:32.94
ISEEAPWI.78095;1	19531	19-AUG-1991	18:59:09.33
ISEEAPWI.78096;1	36966	19-AUG-1991	19:30:14.02
ISEEAPWI.78097;1	30347	19-AUG-1991	19:58:23.52
ISEEAPWI.78098;1	8491	19-AUG-1991	20:08:33.58
ISEEAPWI.78099;1	7360	19-AUG-1991	20:12:50.97
ISEEAPWI.78100;1	10811	19-AUG-1991	20:18:33.19
ISEEAPWI.78101;1	9172	19-AUG-1991	20:24:19.21
ISEEAPWI.78102;1	8744	19-AUG-1991	20:29:20.85
ISEEAPWI.78103;1	9213	19-AUG-1991	20:34:25.25
ISEEAPWI.78104;1	8374	19-AUG-1991	20:39:24.21
ISEEAPWI.78105;1	8641	19-AUG-1991	20:44:10.22
ISEEAPWI.78106;1	8465	19-AUG-1991	20:48:58.23
ISEEAPWI.78107;1	21842	19-AUG-1991	21:02:17.74
ISEEAPWI.78108;1	35661	20-AUG-1991	14:07:13.29
ISEEAPWI.78109;1	28020	20-AUG-1991	14:34:05.59
ISEEAPWI.78110;1	8735	20-AUG-1991	14:43:58.61
ISEEAPWI.78111;1	7981	20-AUG-1991	14:48:36.61
ISEEAPWI.78112;1	7900	20-AUG-1991	14:52:50.33
ISEEAPWI.78113;1	8666	20-AUG-1991	14:57:18.40
ISEEAPWI.78114;1	8909	20-AUG-1991	15:02:08.09
ISEEAPWI.78115;1	9170	20-AUG-1991	15:07:13.25
ISEEAPWI.78116;1	7486	20-AUG-1991	15:11:37.78
ISEEAPWI.78117;1	13072	20-AUG-1991	15:18:21.13
ISEEAPWI.78118;1	7472	20-AUG-1991	15:24:39.55
ISEEAPWI.78119;1	24749	20-AUG-1991	15:41:07.23
ISEEAPWI.78120;1	35610	20-AUG-1991	16:15:00.21
ISEEAPWI.78121;1	33238	20-AUG-1991	16:48:21.98
ISEEAPWI.78122;1	31249	20-AUG-1991	19:08:58.97
ISEEAPWI.78123;1	28250	20-AUG-1991	19:33:28.77
ISEEAPWI.78124;1	13665	20-AUG-1991	19:45:53.91
ISEEAPWI.78125;1	7692	20-AUG-1991	19:51:27.10
ISEEAPWI.78126;1	7283	20-AUG-1991	19:55:28.72
ISEEAPWI.78127;1	7838	20-AUG-1991	19:59:47.36
ISEEAPWI.78128;1	6515	20-AUG-1991	20:03:46.99
ISEEAPWI.78129;1	9093	20-AUG-1991	20:08:32.31
ISEEAPWI.78130;1	8037	20-AUG-1991	20:13:24.71
ISEEAPWI.78131;1	5555	20-AUG-1991	20:17:03.65
ISEEAPWI.78132;1	5937	20-AUG-1991	20:20:10.28
ISEEAPWI.78133;1	8259	20-AUG-1991	20:24:05.23
ISEEAPWI.78134;1	8390	20-AUG-1991	20:28:44.34

ISEEAPWI.78135;1	7917	20-AUG-1991	20:33:13.12
ISEEAPWI.78136;1	8068	20-AUG-1991	20:37:52.73
ISEEAPWI.78137;1	8496	20-AUG-1991	20:42:52.84
ISEEAPWI.78138;1	5837	20-AUG-1991	20:46:50.50
ISEEAPWI.78139;1	8947	20-AUG-1991	20:51:35.52
ISEEAPWI.78140;1	7565	20-AUG-1991	20:56:19.71
ISEEAPWI.78141;1	9383	20-AUG-1991	21:01:13.86
ISEEAPWI.78142;1	8498	20-AUG-1991	21:06:09.79
ISEEAPWI.78143;1	23425	21-AUG-1991	17:25:07.66
ISEEAPWI.78144;1	36706	22-AUG-1991	14:43:24.42
ISEEAPWI.78145;1	23343	22-AUG-1991	15:07:15.78
ISEEAPWI.78146;1	8988	22-AUG-1991	15:17:06.74
ISEEAPWI.78147;1	9206	22-AUG-1991	10:59:48.82
ISEEAPWI.78148;1	8766	22-AUG-1991	11:06:24.26
ISEEAPWI.78149;1	9261	22-AUG-1991	11:12:56.92
ISEEAPWI.78150;1	6953	21-AUG-1991	16:53:03.74
ISEEAPWI.78151;1	9075	22-AUG-1991	13:09:24.33
ISEEAPWI.78152;1	8986	22-AUG-1991	13:15:17.91
ISEEAPWI.78153;1	8912	22-AUG-1991	13:21:20.09
ISEEAPWI.78154;1	9057	22-AUG-1991	13:27:27.74
ISEEAPWI.78155;1	29645	22-AUG-1991	15:39:28.99
ISEEAPWI.78156;1	36918	22-AUG-1991	16:19:53.63
ISEEAPWI.78157;1	22963	22-AUG-1991	16:44:00.16
ISEEAPWI.78158;1	7737	22-AUG-1991	19:36:32.38
ISEEAPWI.78159;1	7982	22-AUG-1991	19:40:53.00
ISEEAPWI.78160;1	8383	22-AUG-1991	19:45:29.16
ISEEAPWI.78161;1	8912	22-AUG-1991	19:50:21.83
ISEEAPWI.78162;1	7603	22-AUG-1991	19:54:46.73
ISEEAPWI.78163;1	7879	22-AUG-1991	19:59:03.24
ISEEAPWI.78164;1	8414	22-AUG-1991	20:03:36.43
ISEEAPWI.78165;1	8744	22-AUG-1991	20:08:28.36
ISEEAPWI.78166;1	8005	22-AUG-1991	20:13:10.89
ISEEAPWI.78167;1	18551	22-AUG-1991	20:23:42.84
ISEEAPWI.78168;1	34346	22-AUG-1991	20:52:32.13
ISEEAPWI.78169;1	21318	23-AUG-1991	12:08:57.15
ISEEAPWI.78170;1	8701	23-AUG-1991	12:24:11.67
ISEEAPWI.78171;1	6317	23-AUG-1991	12:31:08.66
ISEEAPWI.78172;1	6724	23-AUG-1991	12:39:19.42
ISEEAPWI.78173;1	8823	23-AUG-1991	12:52:04.00
ISEEAPWI.78174;1	7685	23-AUG-1991	13:03:30.57
ISEEAPWI.78175;1	9206	23-AUG-1991	13:08:32.31
ISEEAPWI.78176;1	8641	23-AUG-1991	13:14:39.77
VOLDESC.SFD;2	59	1-MAY-1992	14:07:13.41

Total of 139 files, 1812954 blocks.

Grand total of 2 directories, 151 files, 1814090 blocks.

Directory Listing of KV000020, Side 1
Label Name = **ISEEAPWI0003**

Directory 1DUB62:[000000]

000000.DIR;1	1	13-MAY-1992	09:19:39.81
BACKUP.SYS;1	0	13-MAY-1992	09:19:39.81
BADBLK.SYS;1	16	13-MAY-1992	09:19:39.81
BADLOG.SYS;1	1	13-MAY-1992	09:19:39.81
BITMAP.SYS;1	32	13-MAY-1992	09:19:39.81
CONFIG.SYS;1	1	13-MAY-1992	09:19:46.66
CONTIN.SYS;1	0	13-MAY-1992	09:19:39.81
CORIMG.SYS;1	0	13-MAY-1992	09:19:39.81
INDEXF.SYS;1	1075	13-MAY-1992	09:19:39.81
ISEEAPWI.DIR;1	11	13-MAY-1992	09:19:45.61
OSECURE.SYS;1	0	13-MAY-1992	09:19:53.46
VOLSET.SYS;1	0	13-MAY-1992	09:19:39.81

Total of 12 files, 1137 blocks.

Directory 1DUB62:[ISEEAPWI]

FORMAT.SFD;1	23	1-MAY-1992	12:04:42.73
ISEEAPWI.78177;1	8455	24-AUG-1991	13:18:57.84
ISEEAPWI.78178;1	7333	24-AUG-1991	13:23:08.97
ISEEAPWI.78179;1	19292	24-AUG-1991	13:34:06.97
ISEEAPWI.78180;1	33530	24-AUG-1991	16:00:18.89
ISEEAPWI.78181;1	18111	24-AUG-1991	16:16:40.71
ISEEAPWI.78182;1	7996	24-AUG-1991	14:08:58.48
ISEEAPWI.78183;1	6300	24-AUG-1991	14:12:39.38
ISEEAPWI.78184;1	7255	24-AUG-1991	14:16:14.54
ISEEAPWI.78185;1	8142	24-AUG-1991	14:20:34.68
ISEEAPWI.78186;1	9491	24-AUG-1991	14:25:52.71
ISEEAPWI.78187;1	7150	24-AUG-1991	14:30:05.65
ISEEAPWI.78188;1	8993	24-AUG-1991	14:34:57.09
ISEEAPWI.78189;1	7747	24-AUG-1991	14:39:27.97
ISEEAPWI.78190;1	2659	24-AUG-1991	14:41:53.33
ISEEAPWI.78191;1	22291	24-AUG-1991	14:53:37.96
ISEEAPWI.78192;1	21378	24-AUG-1991	15:09:18.87
ISEEAPWI.78193;1	13453	24-AUG-1991	18:04:25.52
ISEEAPWI.78194;1	5891	24-AUG-1991	18:09:45.95
ISEEAPWI.78195;1	7415	24-AUG-1991	18:13:47.28
ISEEAPWI.78196;1	5707	24-AUG-1991	18:17:05.47
ISEEAPWI.78197;1	6613	24-AUG-1991	18:20:18.48
ISEEAPWI.78198;1	10487	24-AUG-1991	18:25:30.90
ISEEAPWI.78199;1	5843	24-AUG-1991	18:29:46.48
ISEEAPWI.78200;1	9959	24-AUG-1991	18:34:35.10
ISEEAPWI.78201;1	8242	24-AUG-1991	18:39:28.27
ISEEAPWI.78202;1	8089	24-AUG-1991	18:43:55.46
ISEEAPWI.78203;1	24357	24-AUG-1991	18:59:01.12
ISEEAPWI.78204;1	28506	24-AUG-1991	19:22:18.11
ISEEAPWI.78205;1	20536	24-AUG-1991	19:39:22.18
ISEEAPWI.78206;1	8115	24-AUG-1991	19:47:01.45
ISEEAPWI.78207;1	8216	24-AUG-1991	19:51:41.66
ISEEAPWI.78208;1	8037	24-AUG-1991	19:56:12.51
ISEEAPWI.78209;1	8383	24-AUG-1991	20:00:59.70
ISEEAPWI.78210;1	11509	24-AUG-1991	20:07:33.22
ISEEAPWI.78211;1	9058	25-AUG-1991	14:46:19.04
ISEEAPWI.78212;1	9916	25-AUG-1991	14:51:48.42

ISEEAPWI.78213;1	8648	25-AUG-1991	14:56:48.76
ISEEAPWI.78214;1	11160	12-NOV-1991	12:00:27.24
ISEEAPWI.78215;1	29463	11-NOV-1991	17:35:10.62
ISEEAPWI.78216;1	27978	11-NOV-1991	19:08:34.22
ISEEAPWI.78217;1	19826	11-NOV-1991	20:27:33.98
ISEEAPWI.78218;1	8450	11-NOV-1991	21:19:34.17
ISEEAPWI.78219;1	7962	11-NOV-1991	21:42:43.54
ISEEAPWI.78220;1	7259	11-NOV-1991	22:04:35.74
ISEEAPWI.78221;1	8398	11-NOV-1991	22:26:02.77
ISEEAPWI.78222;1	9308	11-NOV-1991	22:52:57.18
ISEEAPWI.78223;1	8173	11-NOV-1991	23:18:13.46
ISEEAPWI.78224;1	7735	11-NOV-1991	23:40:52.40
ISEEAPWI.78225;1	7097	12-NOV-1991	00:01:32.90
ISEEAPWI.78226;1	7683	12-NOV-1991	00:21:23.34
ISEEAPWI.78227;1	32481	12-NOV-1991	01:11:27.59
ISEEAPWI.78228;1	25912	12-NOV-1991	02:47:53.78
ISEEAPWI.78229;1	14388	12-NOV-1991	03:54:48.81
ISEEAPWI.78230;1	8101	12-NOV-1991	04:31:41.50
ISEEAPWI.78231;1	8735	12-NOV-1991	04:54:38.95
ISEEAPWI.78232;1	9058	12-NOV-1991	05:18:57.97
ISEEAPWI.78233;1	9258	12-NOV-1991	05:44:41.87
ISEEAPWI.78234;1	9907	12-NOV-1991	06:12:48.71
ISEEAPWI.78235;1	8383	12-NOV-1991	06:40:07.02
ISEEAPWI.78236;1	9694	12-NOV-1991	07:04:38.48
ISEEAPWI.78237;1	8366	12-NOV-1991	07:30:49.37
ISEEAPWI.78238;1	7396	12-NOV-1991	07:52:56.63
ISEEAPWI.78239;1	33186	12-NOV-1991	08:41:57.35
ISEEAPWI.78240;1	34645	12-NOV-1991	10:33:39.47
ISEEAPWI.78241;1	18013	12-NOV-1991	12:38:04.54
ISEEAPWI.78242;1	8639	12-NOV-1991	13:22:42.68
ISEEAPWI.78243;1	9785	12-NOV-1991	13:47:33.18
ISEEAPWI.78244;1	8586	12-NOV-1991	14:13:56.68
ISEEAPWI.78245;1	9194	12-NOV-1991	14:38:18.65
ISEEAPWI.78246;1	9627	12-NOV-1991	15:04:26.56
ISEEAPWI.78247;1	8429	12-NOV-1991	15:30:40.10
ISEEAPWI.78248;1	10079	12-NOV-1991	15:55:07.30
ISEEAPWI.78249;1	7608	12-NOV-1991	16:21:55.84
ISEEAPWI.78250;1	10982	12-NOV-1991	17:34:14.53
ISEEAPWI.78251;1	35391	12-NOV-1991	18:36:06.03
ISEEAPWI.78252;1	30699	12-NOV-1991	20:23:43.05
ISEEAPWI.78253;1	11339	12-NOV-1991	21:38:44.14
ISEEAPWI.78254;1	7714	12-NOV-1991	22:08:04.20
ISEEAPWI.78255;1	9462	12-NOV-1991	22:30:21.15
ISEEAPWI.78256;1	8608	12-NOV-1991	22:55:36.85
ISEEAPWI.78257;1	7819	12-NOV-1991	23:19:07.63
ISEEAPWI.78258;1	8318	12-NOV-1991	23:41:21.97
ISEEAPWI.78259;1	7745	13-NOV-1991	00:05:08.54
ISEEAPWI.78260;1	10035	13-NOV-1991	00:29:09.21
ISEEAPWI.78261;1	8443	13-NOV-1991	00:56:44.33
ISEEAPWI.78262;1	10533	13-NOV-1991	01:21:33.23
ISEEAPWI.78263;1	32959	13-NOV-1991	02:18:51.75
ISEEAPWI.78264;1	32806	13-NOV-1991	04:06:20.24
ISEEAPWI.78265;1	11800	13-NOV-1991	05:26:21.30
ISEEAPWI.78266;1	7977	13-NOV-1991	05:56:57.15
ISEEAPWI.78267;1	8091	13-NOV-1991	06:19:01.94
ISEEAPWI.78268;1	8910	13-NOV-1991	06:41:58.75
ISEEAPWI.78269;1	12028	13-NOV-1991	07:09:13.40
ISEEAPWI.78270;1	6836	13-NOV-1991	07:40:21.21
ISEEAPWI.78271;1	7633	13-NOV-1991	07:59:57.49
ISEEAPWI.78272;1	9210	13-NOV-1991	08:21:55.19

ISEEAPWI.78273;1	7604	13-NOV-1991	08:46:52.94
ISEEAPWI.78274;1	10435	13-NOV-1991	09:10:41.33
ISEEAPWI.78275;1	29099	13-NOV-1991	10:03:01.34
ISEEAPWI.78276;1	30967	13-NOV-1991	20:43:28.75
ISEEAPWI.78277;1	9864	13-NOV-1991	12:47:48.77
ISEEAPWI.78278;1	7805	13-NOV-1991	13:13:38.11
ISEEAPWI.78279;1	8555	13-NOV-1991	13:35:17.21
ISEEAPWI.78280;1	7549	13-NOV-1991	13:58:12.91
ISEEAPWI.78281;1	7967	13-NOV-1991	14:20:13.47
ISEEAPWI.78282;1	6666	13-NOV-1991	14:41:07.49
ISEEAPWI.78283;1	7922	13-NOV-1991	14:59:59.57
ISEEAPWI.78284;1	7716	13-NOV-1991	15:22:31.60
ISEEAPWI.78285;1	7682	13-NOV-1991	15:43:48.30
ISEEAPWI.78286;1	14063	13-NOV-1991	16:09:46.45
ISEEAPWI.78287;1	29903	13-NOV-1991	17:10:31.17
ISEEAPWI.78288;1	32093	13-NOV-1991	22:30:58.06
ISEEAPWI.78289;1	9020	13-NOV-1991	23:47:49.70
ISEEAPWI.78290;1	8132	14-NOV-1991	00:12:36.94
ISEEAPWI.78291;1	7326	14-NOV-1991	00:34:11.88
ISEEAPWI.78292;1	8206	14-NOV-1991	00:54:27.93
ISEEAPWI.78293;1	7771	14-NOV-1991	01:16:28.30
ISEEAPWI.78294;1	7725	14-NOV-1991	01:37:45.48
ISEEAPWI.78295;1	8892	14-NOV-1991	01:59:26.91
ISEEAPWI.78296;1	5813	13-NOV-1991	19:23:12.14
ISEEAPWI.78297;1	7149	14-NOV-1991	02:22:43.36
ISEEAPWI.78298;1	15904	14-NOV-1991	02:48:37.12
ISEEAPWI.78299;1	25000	14-NOV-1991	03:44:10.28
ISEEAPWI.78300;1	26571	14-NOV-1991	05:02:15.43
ISEEAPWI.78301;1	10158	14-NOV-1991	06:07:14.36
ISEEAPWI.78302;1	6600	14-NOV-1991	06:33:54.41
ISEEAPWI.78303;1	7279	14-NOV-1991	06:51:59.55
ISEEAPWI.78304;1	8345	14-NOV-1991	07:12:22.15
ISEEAPWI.78305;1	5720	14-NOV-1991	07:33:34.45
ISEEAPWI.78306;1	6258	14-NOV-1991	07:49:19.39
ISEEAPWI.78307;1	7682	14-NOV-1991	08:07:16.79
ISEEAPWI.78308;1	7572	14-NOV-1991	08:28:11.24
ISEEAPWI.78309;1	7491	14-NOV-1991	08:49:08.73
ISEEAPWI.78310;1	9797	14-NOV-1991	09:11:31.53
ISEEAPWI.78311;1	26400	14-NOV-1991	09:57:42.11
ISEEAPWI.78312;1	22047	14-NOV-1991	11:33:26.25
ISEEAPWI.78313;1	7462	14-NOV-1991	11:36:18.32
ISEEAPWI.78314;1	7188	14-NOV-1991	11:37:22.43
ISEEAPWI.78315;1	5935	14-NOV-1991	11:38:22.36
ISEEAPWI.78316;1	6613	14-NOV-1991	11:39:13.90
ISEEAPWI.78317;1	3746	14-NOV-1991	11:00:26.74
ISEEAPWI.78318;1	6475	14-NOV-1991	11:40:11.99
ISEEAPWI.78319;1	4981	14-NOV-1991	11:41:06.75
ISEEAPWI.78320;1	5203	14-NOV-1991	11:41:49.43
VOLDESC.SFD;3	59	13-MAY-1992	16:39:39.19

Total of 146 files, 1734836 blocks.

Grand total of 2 directories, 158 files, 1735973 blocks.

Directory Listing of KV000020, Side 2
Label Name = **ISEEAPWI0004**

Directory 1DUB62:[000000]

000000.DIR;1	1	13-MAY-1992	16:54:49.92
BACKUP.SYS;1	0	13-MAY-1992	16:54:49.92
BADBLK.SYS;1	16	13-MAY-1992	16:54:49.92
BADLOG.SYS;1	1	13-MAY-1992	16:54:49.92
BITMAP.SYS;1	32	13-MAY-1992	16:54:49.92
CONFIG.SYS;1	1	13-MAY-1992	16:54:57.07
CONTIN.SYS;1	0	13-MAY-1992	16:54:49.92
CORIMG.SYS;1	0	13-MAY-1992	16:54:49.92
INDEXF.SYS;1	1075	13-MAY-1992	16:54:49.92
ISEEAPWI.DIR;1	11	13-MAY-1992	16:54:55.92
OSECURE.SYS;1	0	13-MAY-1992	16:55:03.46
VOLSET.SYS;1	0	13-MAY-1992	16:54:49.92

Total of 12 files, 1137 blocks.

Directory 1DUB62:[ISEEAPWI]

FORMAT.SFD;1	23	1-MAY-1992	12:04:42.73
ISEEAPWI.78321;1	5279	14-NOV-1991	20:08:35.83
ISEEAPWI.78322;1	9653	14-NOV-1991	20:09:34.22
ISEEAPWI.78323;1	26038	14-NOV-1991	20:11:37.61
ISEEAPWI.78324;1	22465	14-NOV-1991	20:15:35.75
ISEEAPWI.78325;1	6719	14-NOV-1991	20:18:31.65
ISEEAPWI.78326;1	6527	14-NOV-1991	20:19:34.75
ISEEAPWI.78327;1	5944	14-NOV-1991	20:20:36.58
ISEEAPWI.78328;1	3440	14-NOV-1991	20:21:28.55
ISEEAPWI.78329;1	5710	14-NOV-1991	20:22:05.14
ISEEAPWI.78330;1	6289	14-NOV-1991	20:23:00.30
ISEEAPWI.78331;1	5320	14-NOV-1991	20:23:56.88
ISEEAPWI.78332;1	5480	14-NOV-1991	20:24:48.19
ISEEAPWI.78333;1	5879	14-NOV-1991	20:25:42.90
ISEEAPWI.78334;1	11544	14-NOV-1991	20:26:49.31
ISEEAPWI.78335;1	20416	14-NOV-1991	20:29:04.03
ISEEAPWI.78336;1	21267	14-NOV-1991	20:32:37.34
ISEEAPWI.78337;1	6686	14-NOV-1991	20:35:24.49
ISEEAPWI.78338;1	6465	14-NOV-1991	20:36:24.35
ISEEAPWI.78339;1	4330	14-NOV-1991	20:37:18.49
ISEEAPWI.78340;1	3897	14-NOV-1991	20:37:56.78
ISEEAPWI.78341;1	3639	14-NOV-1991	20:38:34.56
ISEEAPWI.78342;1	6215	14-NOV-1991	20:39:15.01
ISEEAPWI.78343;1	3515	14-NOV-1991	20:40:06.42
ISEEAPWI.78344;1	6283	25-MAR-1992	17:13:37.26
ISEEAPWI.78345;1	7047	25-MAR-1992	17:15:00.15
ISEEAPWI.78346;1	19553	25-MAR-1992	17:17:52.18
ISEEAPWI.78347;1	26581	25-MAR-1992	17:24:53.90
ISEEAPWI.78348;1	16177	25-MAR-1992	17:29:38.39
ISEEAPWI.78349;1	7487	25-MAR-1992	17:31:25.63
ISEEAPWI.78350;1	7589	25-MAR-1992	17:32:36.91
ISEEAPWI.78351;1	7438	25-MAR-1992	17:33:41.58
ISEEAPWI.78352;1	8192	25-MAR-1992	17:34:41.77
ISEEAPWI.78353;1	7053	25-MAR-1992	17:35:59.35
ISEEAPWI.78354;1	7534	25-MAR-1992	17:37:06.93

ISEEAPWI.78355;1	7735	25-MAR-1992	17:38:03.08
ISEEAPWI.78356;1	7422	25-MAR-1992	17:39:07.18
ISEEAPWI.78357;1	7907	25-MAR-1992	17:40:04.42
ISEEAPWI.78358;1	20598	25-MAR-1992	17:41:23.26
ISEEAPWI.78359;1	33009	25-MAR-1992	17:44:32.66
ISEEAPWI.78360;1	23171	25-MAR-1992	17:52:49.45
ISEEAPWI.78361;1	8782	25-MAR-1992	17:56:12.24
ISEEAPWI.78362;1	8893	25-MAR-1992	17:57:17.43
ISEEAPWI.78363;1	7560	25-MAR-1992	17:58:21.79
ISEEAPWI.78364;1	8840	25-MAR-1992	17:59:24.58
ISEEAPWI.78365;1	7836	25-MAR-1992	18:00:33.30
ISEEAPWI.79001;1	8782	25-MAR-1992	18:01:36.39
ISEEAPWI.79002;1	9039	25-MAR-1992	18:02:43.67
ISEEAPWI.79003;1	7687	25-MAR-1992	18:03:56.45
ISEEAPWI.79004;1	8972	25-MAR-1992	18:04:56.56
ISEEAPWI.79005;1	23771	25-MAR-1992	18:06:34.27
ISEEAPWI.79006;1	28910	25-MAR-1992	18:11:27.50
ISEEAPWI.79007;1	29183	25-MAR-1992	18:15:06.82
ISEEAPWI.79008;1	8826	25-MAR-1992	18:19:53.10
ISEEAPWI.79009;1	7352	25-MAR-1992	18:21:05.04
ISEEAPWI.79010;1	9031	25-MAR-1992	18:22:09.32
ISEEAPWI.79011;1	8163	25-MAR-1992	18:23:25.57
ISEEAPWI.79012;1	6869	25-MAR-1992	18:24:32.73
ISEEAPWI.79013;1	8593	25-MAR-1992	18:25:30.57
ISEEAPWI.79014;1	8706	25-MAR-1992	18:27:02.47
ISEEAPWI.79015;1	9273	25-MAR-1992	18:28:51.20
ISEEAPWI.79016;1	8912	25-MAR-1992	18:30:48.74
ISEEAPWI.79017;1	20770	25-MAR-1992	18:32:34.20
ISEEAPWI.79018;1	29867	25-MAR-1992	18:35:32.14
ISEEAPWI.79019;1	26215	25-MAR-1992	18:41:09.54
ISEEAPWI.79020;1	8881	25-MAR-1992	18:44:02.57
ISEEAPWI.79021;1	8589	25-MAR-1992	18:45:46.44
ISEEAPWI.79022;1	8850	25-MAR-1992	18:47:52.30
ISEEAPWI.79023;1	9143	25-MAR-1992	18:49:34.18
ISEEAPWI.79024;1	7840	25-MAR-1992	18:50:43.43
ISEEAPWI.79025;1	8462	25-MAR-1992	18:51:44.95
ISEEAPWI.79026;1	6408	25-MAR-1992	18:52:45.91
ISEEAPWI.79027;1	8489	26-MAR-1992	13:21:34.32
ISEEAPWI.79028;1	8273	26-MAR-1992	13:25:19.28
ISEEAPWI.79029;1	25900	26-MAR-1992	13:27:40.43
ISEEAPWI.79030;1	32504	26-MAR-1992	13:33:33.14
ISEEAPWI.79031;1	24780	26-MAR-1992	13:37:30.56
ISEEAPWI.79032;1	8673	26-MAR-1992	13:40:17.45
ISEEAPWI.79033;1	7510	26-MAR-1992	13:41:26.24
ISEEAPWI.79034;1	7240	26-MAR-1992	13:42:26.21
ISEEAPWI.79035;1	8672	26-MAR-1992	13:43:24.87
ISEEAPWI.79036;1	7903	26-MAR-1992	13:44:33.09
ISEEAPWI.79037;1	7529	26-MAR-1992	13:45:33.92
ISEEAPWI.79038;1	8630	26-MAR-1992	13:46:37.20
ISEEAPWI.79039;1	8553	26-MAR-1992	13:47:46.56
ISEEAPWI.79040;1	9235	26-MAR-1992	13:48:57.19
ISEEAPWI.79041;1	27064	26-MAR-1992	13:50:54.55
ISEEAPWI.79042;1	36484	26-MAR-1992	13:54:43.99
ISEEAPWI.79043;1	24764	26-MAR-1992	13:59:17.54
ISEEAPWI.79044;1	8615	26-MAR-1992	14:02:14.30
ISEEAPWI.79045;1	9020	26-MAR-1992	14:03:25.21
ISEEAPWI.79046;1	8460	26-MAR-1992	14:04:39.76
ISEEAPWI.79047;1	8522	26-MAR-1992	14:05:49.77
ISEEAPWI.79048;1	8871	26-MAR-1992	14:07:07.97
ISEEAPWI.79049;1	8919	26-MAR-1992	14:08:19.76

ISEEAPWI.79050;1	7030	26-MAR-1992	14:09:30.13
ISEEAPWI.79051;1	8831	26-MAR-1992	14:10:30.13
ISEEAPWI.79052;1	7776	26-MAR-1992	14:11:46.07
ISEEAPWI.79053;1	28975	26-MAR-1992	14:13:22.59
ISEEAPWI.79054;1	32450	26-MAR-1992	14:17:20.67
ISEEAPWI.79055;1	22011	26-MAR-1992	14:21:26.83
ISEEAPWI.79056;1	9270	26-MAR-1992	14:24:10.27
ISEEAPWI.79057;1	8218	26-MAR-1992	14:25:31.05
ISEEAPWI.79058;1	8649	26-MAR-1992	14:26:43.30
ISEEAPWI.79059;1	8653	26-MAR-1992	14:27:55.14
ISEEAPWI.79060;1	8445	26-MAR-1992	14:29:06.26
ISEEAPWI.79061;1	9105	26-MAR-1992	14:30:21.04
ISEEAPWI.79062;1	7972	26-MAR-1992	14:31:33.30
ISEEAPWI.79063;1	8723	26-MAR-1992	14:32:39.55
ISEEAPWI.79064;1	8984	26-MAR-1992	14:33:51.16
ISEEAPWI.79065;1	29142	26-MAR-1992	14:35:37.34
ISEEAPWI.79066;1	30642	26-MAR-1992	14:39:39.30
ISEEAPWI.79067;1	22275	26-MAR-1992	14:43:44.71
ISEEAPWI.79068;1	7193	26-MAR-1992	14:46:29.28
ISEEAPWI.79069;1	7688	26-MAR-1992	14:47:26.62
ISEEAPWI.79070;1	7704	26-MAR-1992	14:48:27.19
ISEEAPWI.79071;1	8660	26-MAR-1992	14:49:29.70
ISEEAPWI.79072;1	8687	26-MAR-1992	14:50:37.72
ISEEAPWI.79073;1	8929	26-MAR-1992	14:51:43.79
ISEEAPWI.79074;1	15162	26-MAR-1992	14:52:59.82
ISEEAPWI.79075;1	8868	26-MAR-1992	14:54:39.51
ISEEAPWI.79076;1	8795	26-MAR-1992	14:55:44.52
ISEEAPWI.79077;1	25490	26-MAR-1992	14:57:20.06
ISEEAPWI.79078;1	28482	26-MAR-1992	15:00:52.40
ISEEAPWI.79079;1	22922	26-MAR-1992	15:04:19.98
ISEEAPWI.79080;1	10016	26-MAR-1992	15:06:45.59
ISEEAPWI.79081;1	9797	26-MAR-1992	15:08:02.75
ISEEAPWI.79082;1	8995	26-MAR-1992	15:09:15.04
ISEEAPWI.79083;1	8708	26-MAR-1992	15:10:19.47
ISEEAPWI.79084;1	7156	26-MAR-1992	15:11:24.84
ISEEAPWI.79085;1	8553	26-MAR-1992	15:12:21.84
ISEEAPWI.79086;1	10273	26-MAR-1992	14:23:08.51
ISEEAPWI.79087;1	8596	26-MAR-1992	14:26:26.20
ISEEAPWI.79088;1	8318	26-MAR-1992	14:27:57.63
ISEEAPWI.79089;1	32383	26-MAR-1992	14:31:13.59
ISEEAPWI.79090;1	34540	26-MAR-1992	14:42:00.32
ISEEAPWI.79091;1	19584	26-MAR-1992	14:49:39.31
ISEEAPWI.79092;1	7943	26-MAR-1992	14:52:17.85
ISEEAPWI.79093;1	9849	26-MAR-1992	14:53:39.63
ISEEAPWI.79094;1	8395	26-MAR-1992	14:55:11.47
ISEEAPWI.79095;1	8458	26-MAR-1992	14:56:32.22
ISEEAPWI.79096;1	11348	26-MAR-1992	14:58:01.24
ISEEAPWI.79097;1	9234	26-MAR-1992	14:59:47.61
ISEEAPWI.79098;1	12965	26-MAR-1992	15:01:24.42
ISEEAPWI.79099;1	9156	26-MAR-1992	15:03:20.12
ISEEAPWI.79100;1	9161	26-MAR-1992	15:04:49.13
VOLDESC.SFD;3	59	15-MAY-1992	09:54:39.55

Total of 147 files, 1786349 blocks.

Grand total of 2 directories, 159 files, 1787486 blocks.

Directory Listing of KV000021, Side 1
Label Name = **ISEEAPWI0005**

Directory 1DUB62:[000000]

000000.DIR;1	1	15-MAY-1992	10:58:51.02
BACKUP.SYS;1	0	15-MAY-1992	10:58:51.02
BADBLK.SYS;1	16	15-MAY-1992	10:58:51.02
BADLOG.SYS;1	1	15-MAY-1992	10:58:51.02
BITMAP.SYS;1	32	15-MAY-1992	10:58:51.02
CONFIG.SYS;1	1	15-MAY-1992	10:58:58.09
CONTIN.SYS;1	0	15-MAY-1992	10:58:51.02
CORIMG.SYS;1	0	15-MAY-1992	10:58:51.02
INDEXF.SYS;1	1075	15-MAY-1992	10:58:51.02
ISEEAPWI.DIR;1	10	15-MAY-1992	10:58:56.97
OSECURE.SYS;1	0	15-MAY-1992	10:59:04.75
VOLSET.SYS;1	0	15-MAY-1992	10:58:51.02

Total of 12 files, 1136 blocks.

Directory 1DUB62:[ISEEAPWI]

FORMAT.SFD;1	23	1-MAY-1992	12:04:42.73
ISEEAPWI.79101;1	33726	27-MAR-1992	18:03:44.10
ISEEAPWI.79102;1	31968	27-MAR-1992	18:07:57.37
ISEEAPWI.79103;1	17456	27-MAR-1992	18:13:18.63
ISEEAPWI.79104;1	7668	27-MAR-1992	18:15:28.01
ISEEAPWI.79105;1	6432	27-MAR-1992	18:16:28.90
ISEEAPWI.79106;1	9289	27-MAR-1992	18:17:23.41
ISEEAPWI.79107;1	7654	27-MAR-1992	18:18:30.12
ISEEAPWI.79108;1	10983	27-MAR-1992	18:19:44.46
ISEEAPWI.79109;1	9086	27-MAR-1992	18:21:57.80
ISEEAPWI.79110;1	9538	27-MAR-1992	18:23:43.48
ISEEAPWI.79111;1	8393	27-MAR-1992	18:25:01.75
ISEEAPWI.79112;1	8429	27-MAR-1992	18:26:06.42
ISEEAPWI.79113;1	33587	27-MAR-1992	18:27:49.15
ISEEAPWI.79114;1	33655	27-MAR-1992	18:33:01.21
ISEEAPWI.79115;1	10442	27-MAR-1992	18:37:36.39
ISEEAPWI.79116;1	8139	27-MAR-1992	18:38:50.05
ISEEAPWI.79117;1	8128	27-MAR-1992	18:39:50.47
ISEEAPWI.79118;1	8130	27-MAR-1992	18:40:49.50
ISEEAPWI.79119;1	8005	27-MAR-1992	18:41:52.11
ISEEAPWI.79120;1	7645	27-MAR-1992	18:43:14.03
ISEEAPWI.79121;1	8209	27-MAR-1992	18:44:51.38
ISEEAPWI.79122;1	9636	27-MAR-1992	18:46:30.72
ISEEAPWI.79123;1	7523	27-MAR-1992	18:47:48.21
ISEEAPWI.79124;1	9870	27-MAR-1992	18:48:47.95
ISEEAPWI.79125;1	34573	27-MAR-1992	18:50:39.64
ISEEAPWI.79126;1	34310	27-MAR-1992	18:55:19.54
ISEEAPWI.79127;1	14661	27-MAR-1992	19:00:30.68
ISEEAPWI.79128;1	9022	27-MAR-1992	19:02:12.34
ISEEAPWI.79129;1	10420	27-MAR-1992	19:03:22.56
ISEEAPWI.79130;1	9026	27-MAR-1992	19:04:42.17
ISEEAPWI.79131;1	8321	27-MAR-1992	19:06:13.72
ISEEAPWI.79132;1	7902	27-MAR-1992	19:07:58.64
ISEEAPWI.79133;1	8512	27-MAR-1992	19:09:39.40
ISEEAPWI.79134;1	8352	27-MAR-1992	19:10:50.67
ISEEAPWI.79135;1	7438	27-MAR-1992	19:11:55.45
ISEEAPWI.79136;1	12374	27-MAR-1992	19:13:00.82

ISEEAPWI.79137;1	25335	27-MAR-1992	19:14:52.38
ISEEAPWI.79138;1	33116	27-MAR-1992	19:19:32.26
ISEEAPWI.79139;1	13240	27-MAR-1992	19:23:57.58
ISEEAPWI.79140;1	8469	27-MAR-1992	19:25:35.57
ISEEAPWI.79141;1	9247	27-MAR-1992	19:26:41.38
ISEEAPWI.79142;1	9014	27-MAR-1992	19:27:52.92
ISEEAPWI.79143;1	8601	27-MAR-1992	19:29:40.16
ISEEAPWI.79144;1	8383	27-MAR-1992	19:31:25.62
ISEEAPWI.79145;1	8816	27-MAR-1992	19:32:52.64
ISEEAPWI.79146;1	8223	27-MAR-1992	19:33:59.35
ISEEAPWI.79147;1	9007	27-MAR-1992	19:35:05.36
ISEEAPWI.79148;1	13378	27-MAR-1992	19:36:19.91
ISEEAPWI.79149;1	34064	27-MAR-1992	19:38:35.02
ISEEAPWI.79150;1	34267	27-MAR-1992	19:44:44.38
ISEEAPWI.79151;1	11674	27-MAR-1992	19:48:38.08
ISEEAPWI.79152;1	8263	27-MAR-1992	19:50:03.84
ISEEAPWI.79153;2	10650	27-MAR-1992	19:51:16.09
ISEEAPWI.79153;1	10650	27-MAR-1992	19:51:16.09
ISEEAPWI.79154;1	8651	27-MAR-1992	19:53:19.44
ISEEAPWI.79155;1	7066	27-MAR-1992	19:55:03.33
ISEEAPWI.79156;1	7302	27-MAR-1992	19:56:17.02
ISEEAPWI.79157;1	7077	27-MAR-1992	19:57:13.82
ISEEAPWI.79158;1	7369	27-MAR-1992	19:58:12.33
ISEEAPWI.79159;1	7506	27-MAR-1992	19:59:08.33
ISEEAPWI.79160;1	15249	27-MAR-1992	20:00:17.76
ISEEAPWI.79161;1	31234	27-MAR-1992	20:02:46.65
ISEEAPWI.79162;1	28523	27-MAR-1992	20:08:26.53
ISEEAPWI.79163;1	9452	27-MAR-1992	20:11:33.10
ISEEAPWI.79164;1	8584	27-MAR-1992	20:12:45.44
ISEEAPWI.79165;1	7707	27-MAR-1992	20:13:51.94
ISEEAPWI.79166;1	7517	27-MAR-1992	20:14:56.73
ISEEAPWI.79167;1	6736	27-MAR-1992	20:16:29.01
ISEEAPWI.79168;1	8608	27-MAR-1992	20:17:57.49
ISEEAPWI.79169;1	8464	27-MAR-1992	20:19:34.10
ISEEAPWI.79170;2	8018	27-MAR-1992	20:20:40.34
ISEEAPWI.79170;1	8018	27-MAR-1992	20:20:40.34
ISEEAPWI.79171;1	4901	27-MAR-1992	20:21:41.84
ISEEAPWI.79172;1	14450	27-MAR-1992	20:22:34.50
ISEEAPWI.79173;1	32554	27-MAR-1992	20:24:57.69
ISEEAPWI.79174;1	29346	27-MAR-1992	20:30:46.17
ISEEAPWI.79175;1	8682	27-MAR-1992	20:34:02.50
ISEEAPWI.79176;1	6987	27-MAR-1992	20:35:08.57
ISEEAPWI.79177;1	8342	27-MAR-1992	20:36:03.33
ISEEAPWI.79178;1	5714	27-MAR-1992	20:37:01.36
ISEEAPWI.79179;1	6246	27-MAR-1992	20:37:48.92
ISEEAPWI.79180;1	7247	27-MAR-1992	20:39:04.41
ISEEAPWI.79181;1	7108	27-MAR-1992	20:40:39.92
ISEEAPWI.79182;1	6164	27-MAR-1992	20:42:08.05
ISEEAPWI.79183;1	8202	27-MAR-1992	20:43:10.34
ISEEAPWI.79184;1	18341	27-MAR-1992	20:44:30.53
ISEEAPWI.79185;1	29164	27-MAR-1992	20:47:10.32
ISEEAPWI.79186;1	28963	27-MAR-1992	20:50:56.18
ISEEAPWI.79187;1	7900	27-MAR-1992	20:54:24.56
ISEEAPWI.79188;1	8192	27-MAR-1992	20:55:28.09
ISEEAPWI.79189;1	7604	27-MAR-1992	20:56:32.37
ISEEAPWI.79190;1	8220	27-MAR-1992	20:57:36.70
ISEEAPWI.79191;1	6884	27-MAR-1992	20:58:43.32
ISEEAPWI.79192;1	7706	27-MAR-1992	20:59:41.14
ISEEAPWI.79193;1	7192	27-MAR-1992	21:00:42.35
ISEEAPWI.79194;1	6343	27-MAR-1992	21:01:40.44

ISEEAPWI.79195;1	7121	27-MAR-1992	21:02:34.74
ISEEAPWI.79196;1	19996	27-MAR-1992	21:03:52.71
ISEEAPWI.79197;1	36610	27-MAR-1992	21:07:03.64
ISEEAPWI.79198;1	28102	27-MAR-1992	21:11:48.44
ISEEAPWI.79199;1	8512	27-MAR-1992	21:15:03.72
ISEEAPWI.79200;1	8488	27-MAR-1992	21:16:13.95
ISEEAPWI.79201;1	8120	27-MAR-1992	21:17:25.62
ISEEAPWI.79202;1	8864	27-MAR-1992	21:18:33.24
ISEEAPWI.79203;1	7841	27-MAR-1992	21:19:45.13
ISEEAPWI.79204;1	9015	27-MAR-1992	21:20:50.98
ISEEAPWI.79205;1	8192	27-MAR-1992	21:22:04.48
ISEEAPWI.79206;1	7774	27-MAR-1992	21:23:13.72
ISEEAPWI.79207;1	8630	27-MAR-1992	21:24:11.01
ISEEAPWI.79208;1	20815	27-MAR-1992	21:25:33.90
ISEEAPWI.79209;1	35348	27-MAR-1992	21:28:36.38
ISEEAPWI.79210;1	31670	27-MAR-1992	21:33:19.91
ISEEAPWI.79211;1	8364	27-MAR-1992	21:36:56.16
ISEEAPWI.79212;1	8024	27-MAR-1992	21:37:57.72
ISEEAPWI.79213;1	6953	27-MAR-1992	21:38:55.59
ISEEAPWI.79214;1	6924	27-MAR-1992	21:39:46.13
ISEEAPWI.79215;1	6394	27-MAR-1992	21:40:36.38
ISEEAPWI.79216;1	7781	27-MAR-1992	21:41:24.64
ISEEAPWI.79217;1	7896	27-MAR-1992	21:42:22.07
ISEEAPWI.79218;1	7477	27-MAR-1992	21:43:18.57
ISEEAPWI.79219;1	8843	27-MAR-1992	21:44:15.21
ISEEAPWI.79220;1	22153	27-MAR-1992	21:45:39.73
ISEEAPWI.79221;1	32555	27-MAR-1992	21:48:50.70
ISEEAPWI.79222;1	27112	27-MAR-1992	21:53:04.65
ISEEAPWI.79223;1	8577	27-MAR-1992	21:56:01.27
ISEEAPWI.79224;1	8018	27-MAR-1992	21:57:03.48
ISEEAPWI.79225;1	6803	27-MAR-1992	21:58:00.26
ISEEAPWI.79226;1	8132	27-MAR-1992	21:58:54.15
ISEEAPWI.79227;1	6614	27-MAR-1992	21:59:51.40
ISEEAPWI.79228;1	7388	27-MAR-1992	22:00:41.80
ISEEAPWI.79229;1	7716	27-MAR-1992	22:01:38.22
ISEEAPWI.79230;1	7035	27-MAR-1992	22:02:35.58
ISEEAPWI.79231;1	7568	27-MAR-1992	22:03:29.62
ISEEAPWI.79232;1	24039	27-MAR-1992	22:04:52.86
ISEEAPWI.79233;1	28405	27-MAR-1992	22:07:56.39
ISEEAPWI.79234;1	25880	27-MAR-1992	22:11:22.90
ISEEAPWI.79235;1	7749	27-MAR-1992	22:14:05.73
ISEEAPWI.79236;1	7707	27-MAR-1992	22:15:03.16
ISEEAPWI.79237;1	6728	27-MAR-1992	22:15:56.52
ISEEAPWI.79238;1	7769	27-MAR-1992	22:16:46.48
ISEEAPWI.79239;1	8343	27-MAR-1992	22:17:44.86
ISEEAPWI.79240;1	8462	27-MAR-1992	22:18:47.11
ISEEAPWI.79241;1	8407	27-MAR-1992	22:19:50.31
VOLDESC.SFD;1	59	15-MAY-1992	10:12:32.73

Total of 145 files, 1825428 blocks.

Grand total of 2 directories, 157 files, 1826564 blocks.

Directory Listing of KV000021, Side 2
Label Name = **ISEEAPWI0005**

Directory 1DUB62:[000000]

000000.DIR;1	1	15-MAY-1992	16:35:21.60
BACKUP.SYS;1	0	15-MAY-1992	16:35:21.60
BADBLK.SYS;1	16	15-MAY-1992	16:35:21.60
BADLOG.SYS;1	1	15-MAY-1992	16:35:21.60
BAD_FILES.DIR;1	1	15-MAY-1992	16:35:28.98
BITMAP.SYS;1	32	15-MAY-1992	16:35:21.60
CONFIG.SYS;1	1	15-MAY-1992	16:35:30.11
CONTIN.SYS;1	0	15-MAY-1992	16:35:21.60
CORIMG.SYS;1	0	15-MAY-1992	16:35:21.60
INDEXF.SYS;1	1075	15-MAY-1992	16:35:21.60
ISEEAPWI.DIR;1	11	15-MAY-1992	16:35:28.43
OSECURE.SYS;1	0	15-MAY-1992	16:35:42.26
VOLSET.SYS;1	0	15-MAY-1992	16:35:21.60

Total of 13 files, 1138 blocks.

Directory 1DUB62:[ISEEAPWI]

FORMAT.SFD;1	23	1-MAY-1992	12:04:42.73
ISEEAPWI.79242;1	7085	29-MAR-1992	23:39:17.33
ISEEAPWI.79243;1	7886	29-MAR-1992	23:40:15.23
ISEEAPWI.79244;1	25314	29-MAR-1992	23:41:48.59
ISEEAPWI.79245;1	29157	29-MAR-1992	23:45:20.18
ISEEAPWI.79246;1	25866	29-MAR-1992	23:49:15.15
ISEEAPWI.79247;1	6994	29-MAR-1992	23:52:14.33
ISEEAPWI.79248;1	8350	29-MAR-1992	23:53:17.87
ISEEAPWI.79249;1	7358	29-MAR-1992	23:54:21.69
ISEEAPWI.79250;1	7840	29-MAR-1992	23:55:19.33
ISEEAPWI.79251;1	8330	29-MAR-1992	23:56:18.45
ISEEAPWI.79252;1	8611	29-MAR-1992	23:57:27.31
ISEEAPWI.79253;1	7714	29-MAR-1992	23:58:30.73
ISEEAPWI.79254;1	8001	29-MAR-1992	23:59:28.56
ISEEAPWI.79255;1	8467	30-MAR-1992	00:00:30.62
ISEEAPWI.79256;1	19252	30-MAR-1992	00:01:50.69
ISEEAPWI.79257;1	28210	30-MAR-1992	00:04:33.93
ISEEAPWI.79258;1	23384	30-MAR-1992	00:08:03.83
ISEEAPWI.79259;1	8862	30-MAR-1992	00:10:33.97
ISEEAPWI.79260;1	8799	30-MAR-1992	00:11:40.48
ISEEAPWI.79261;1	8733	30-MAR-1992	00:12:52.94
ISEEAPWI.79262;1	7329	30-MAR-1992	00:13:57.52
ISEEAPWI.79263;1	8648	30-MAR-1992	00:14:55.79
ISEEAPWI.79264;1	7152	30-MAR-1992	00:15:59.90
ISEEAPWI.79265;1	6004	30-MAR-1992	00:16:55.26
ISEEAPWI.79266;1	7051	30-MAR-1992	00:17:43.65
ISEEAPWI.79267;1	6059	30-MAR-1992	00:18:37.21
ISEEAPWI.79268;1	21738	30-MAR-1992	00:19:47.59
ISEEAPWI.79269;1	25294	30-MAR-1992	00:22:37.78
ISEEAPWI.79270;1	30316	30-MAR-1992	00:25:55.72
ISEEAPWI.79271;1	33721	30-MAR-1992	00:29:49.31
ISEEAPWI.79272;1	29692	30-MAR-1992	00:34:11.62
ISEEAPWI.79273;1	8886	30-MAR-1992	00:37:44.59
ISEEAPWI.79274;1	6284	30-MAR-1992	00:38:48.22
ISEEAPWI.79275;1	7319	30-MAR-1992	00:39:44.54
ISEEAPWI.79276;1	7749	30-MAR-1992	00:40:42.32

ISEEAPWI.79277;1	5918	30-MAR-1992	00:41:40.00
ISEEAPWI.79278;1	7310	30-MAR-1992	00:42:31.86
ISEEAPWI.79279;1	7364	30-MAR-1992	00:43:33.10
ISEEAPWI.79280;1	27629	30-MAR-1992	00:45:05.96
ISEEAPWI.79281;1	30290	30-MAR-1992	00:49:06.17
ISEEAPWI.79282;1	16322	30-MAR-1992	00:53:03.44
ISEEAPWI.79283;1	7515	30-MAR-1992	00:55:14.84
ISEEAPWI.79284;1	7132	30-MAR-1992	00:56:14.67
ISEEAPWI.79285;1	8593	30-MAR-1992	00:57:13.37
ISEEAPWI.79286;1	7692	30-MAR-1992	00:58:29.16
ISEEAPWI.79287;1	7384	30-MAR-1992	00:59:34.09
ISEEAPWI.79288;1	7551	30-MAR-1992	01:00:39.22
ISEEAPWI.79289;1	5970	30-MAR-1992	01:01:39.11
ISEEAPWI.79290;1	8575	30-MAR-1992	01:02:31.18
ISEEAPWI.79291;1	5217	30-MAR-1992	01:03:37.90
ISEEAPWI.79292;1	26113	30-MAR-1992	01:04:54.53
ISEEAPWI.79293;1	27633	30-MAR-1992	01:08:44.21
ISEEAPWI.79294;1	14362	30-MAR-1992	01:12:55.10
ISEEAPWI.79295;1	8030	30-MAR-1992	01:14:40.94
ISEEAPWI.79296;1	7097	30-MAR-1992	01:15:43.25
ISEEAPWI.79297;1	7472	30-MAR-1992	10:01:24.08
ISEEAPWI.79298;1	5989	30-MAR-1992	10:03:21.99
ISEEAPWI.79299;1	5817	30-MAR-1992	10:05:05.70
ISEEAPWI.79300;1	6905	30-MAR-1992	10:06:51.30
ISEEAPWI.79301;1	6396	30-MAR-1992	10:08:48.85
ISEEAPWI.79302;1	8085	30-MAR-1992	10:10:45.80
ISEEAPWI.79303;1	8661	30-MAR-1992	10:13:05.31
ISEEAPWI.79304;1	24702	30-MAR-1992	10:16:28.45
ISEEAPWI.79305;1	29463	30-MAR-1992	10:23:27.84
ISEEAPWI.79306;1	12828	30-MAR-1992	10:30:16.20
ISEEAPWI.79307;1	8127	30-MAR-1992	01:16:44.38
ISEEAPWI.79308;1	8098	30-MAR-1992	01:17:51.20
ISEEAPWI.79309;1	8352	30-MAR-1992	01:18:49.80
ISEEAPWI.79310;1	7881	30-MAR-1992	01:19:47.42
ISEEAPWI.79311;1	7714	30-MAR-1992	01:20:43.78
ISEEAPWI.79312;1	8342	30-MAR-1992	01:21:40.85
ISEEAPWI.79313;1	7762	30-MAR-1992	01:22:45.62
ISEEAPWI.79314;1	9211	30-MAR-1992	01:23:47.84
ISEEAPWI.79315;1	8866	30-MAR-1992	01:24:58.03
ISEEAPWI.79316;1	31416	30-MAR-1992	01:26:44.67
ISEEAPWI.79317;1	34003	30-MAR-1992	01:31:01.83
ISEEAPWI.79318;1	17822	30-MAR-1992	01:35:09.16
ISEEAPWI.79319;1	8527	30-MAR-1992	01:37:37.60
ISEEAPWI.79320;1	7104	30-MAR-1992	01:38:50.85
ISEEAPWI.79321;1	9187	30-MAR-1992	01:39:48.36
ISEEAPWI.79322;1	9179	30-MAR-1992	01:40:58.86
ISEEAPWI.79323;1	8560	30-MAR-1992	01:42:09.57
ISEEAPWI.79324;1	9187	30-MAR-1992	01:43:15.33
ISEEAPWI.79325;1	7647	30-MAR-1992	01:44:26.63
ISEEAPWI.79326;1	8445	30-MAR-1992	01:45:26.28
ISEEAPWI.79327;1	8807	30-MAR-1992	01:46:31.99
ISEEAPWI.79328;1	33930	30-MAR-1992	01:48:20.87
ISEEAPWI.79329;1	34506	30-MAR-1992	01:52:45.63
ISEEAPWI.79330;1	16640	30-MAR-1992	01:56:43.36
ISEEAPWI.79331;1	7982	30-MAR-1992	01:58:34.44
ISEEAPWI.79332;1	7317	30-MAR-1992	01:59:35.16
ISEEAPWI.79333;1	8249	30-MAR-1992	02:00:34.36
ISEEAPWI.79334;1	8214	30-MAR-1992	02:01:37.98
ISEEAPWI.79335;1	8572	30-MAR-1992	02:02:42.38
ISEEAPWI.79336;1	8106	30-MAR-1992	02:03:47.30

ISEEAPWI.79337;1	6064	30-MAR-1992	02:04:48.54
ISEEAPWI.79338;1	8479	30-MAR-1992	02:05:38.31
ISEEAPWI.79339;1	7035	30-MAR-1992	02:06:43.29
ISEEAPWI.79340;1	32177	30-MAR-1992	02:08:17.81
ISEEAPWI.79341;1	29551	30-MAR-1992	02:12:19.61
ISEEAPWI.79342;1	10198	30-MAR-1992	02:15:31.59
ISEEAPWI.79343;1	8285	30-MAR-1992	02:16:45.77
ISEEAPWI.79344;1	7506	30-MAR-1992	02:17:49.94
ISEEAPWI.79345;1	8118	30-MAR-1992	02:18:48.81
ISEEAPWI.79346;1	8209	30-MAR-1992	02:19:52.10
ISEEAPWI.79347;1	8338	30-MAR-1992	02:20:55.29
ISEEAPWI.79348;1	6805	30-MAR-1992	02:22:01.01
ISEEAPWI.79349;1	6162	30-MAR-1992	02:22:53.18
ISEEAPWI.79350;1	8281	30-MAR-1992	02:23:45.25
ISEEAPWI.79351;1	8058	30-MAR-1992	02:24:50.30
ISEEAPWI.79352;1	33490	30-MAR-1992	02:26:34.19
ISEEAPWI.79353;1	29824	30-MAR-1992	02:30:51.97
ISEEAPWI.79354;1	9381	30-MAR-1992	02:34:12.15
ISEEAPWI.79355;1	8474	30-MAR-1992	02:35:31.57
ISEEAPWI.79356;1	7594	30-MAR-1992	02:36:36.73
ISEEAPWI.79357;1	8441	30-MAR-1992	02:37:37.39
ISEEAPWI.79358;1	8909	30-MAR-1992	02:38:45.44
ISEEAPWI.79359;1	5365	30-MAR-1992	02:39:51.01
ISEEAPWI.79360;1	8563	30-MAR-1992	02:40:40.36
ISEEAPWI.79361;1	8510	30-MAR-1992	02:41:47.34
ISEEAPWI.79362;1	9136	30-MAR-1992	02:42:56.10
ISEEAPWI.79363;1	9993	30-MAR-1992	02:44:09.06
ISEEAPWI.79364;1	34840	30-MAR-1992	02:46:04.54
ISEEAPWI.79365;1	36515	30-MAR-1992	02:50:45.30
ISEEAPWI.80001;1	13496	30-MAR-1992	02:55:04.18
ISEEAPWI.80002;1	8275	30-MAR-1992	02:56:40.81
ISEEAPWI.80003;1	8333	30-MAR-1992	02:57:45.63
ISEEAPWI.80004;1	7817	30-MAR-1992	02:58:53.25
ISEEAPWI.80005;1	8728	30-MAR-1992	02:59:59.69
ISEEAPWI.80006;1	9144	30-MAR-1992	03:01:09.02
ISEEAPWI.80007;1	8868	30-MAR-1992	03:02:23.31
ISEEAPWI.80008;1	7252	30-MAR-1992	03:03:32.25
ISEEAPWI.80009;1	7938	30-MAR-1992	03:04:33.44
ISEEAPWI.80010;1	11851	30-MAR-1992	03:05:42.04
ISEEAPWI.80011;1	33317	30-MAR-1992	03:07:53.71
ISEEAPWI.80012;1	36148	30-MAR-1992	03:12:23.90
ISEEAPWI.80013;1	9098	30-MAR-1992	03:16:31.70
ISEEAPWI.80014;1	9069	30-MAR-1992	03:17:38.69
ISEEAPWI.80015;1	8814	30-MAR-1992	03:18:43.17
ISEEAPWI.80016;1	9158	30-MAR-1992	03:19:46.84
ISEEAPWI.80017;1	8527	30-MAR-1992	03:20:51.06
ISEEAPWI.80018;1	8880	30-MAR-1992	03:21:52.42
ISEEAPWI.80019;1	9057	30-MAR-1992	03:22:56.42
ISEEAPWI.80020;1	7243	30-MAR-1992	03:23:57.76
ISEEAPWI.80021;1	9247	30-MAR-1992	03:24:51.98
ISEEAPWI.80022;1	13403	30-MAR-1992	03:26:03.54
VOLDESC.SFD;1	59	15-MAY-1992	10:14:16.71

Total of 148 files, 1841269 blocks.

Grand total of 2 directories, 161 files, 1842407 blocks.

Directory Listing of KV000022, Side 1
Label Name = **ISEEAPWI0007**

Directory 1DUB62:[000000]

000000.DIR;1	1	18-MAY-1992	12:18:41.28
BACKUP.SYS;1	0	18-MAY-1992	12:18:41.28
BADBLK.SYS;1	16	18-MAY-1992	12:18:41.28
BADLOG.SYS;1	1	18-MAY-1992	12:18:41.28
BAD_FILES.DIR;1	1	18-MAY-1992	12:18:48.09
BITMAP.SYS;1	32	18-MAY-1992	12:18:41.28
CONFIG.SYS;1	1	18-MAY-1992	12:18:49.00
CONTIN.SYS;1	0	18-MAY-1992	12:18:41.28
CORIMG.SYS;1	0	18-MAY-1992	12:18:41.28
INDEXF.SYS;1	1075	18-MAY-1992	12:18:41.28
ISEEAPWI.DIR;1	12	18-MAY-1992	12:18:47.53
OSECURE.SYS;1	0	18-MAY-1992	12:18:55.65
VOLSET.SYS;1	0	18-MAY-1992	12:18:41.28

Total of 13 files, 1139 blocks.

Directory 1DUB62:[BAD_FILES]

FORMAT.SFD;13	23	1-MAY-1992	12:04:42.73
FORMAT.SFD;12	23	1-MAY-1992	12:04:42.73
FORMAT.SFD;11	23	1-MAY-1992	12:04:42.73
FORMAT.SFD;10	23	1-MAY-1992	12:04:42.73
FORMAT.SFD;9	23	1-MAY-1992	12:04:42.73
FORMAT.SFD;8	23	1-MAY-1992	12:04:42.73
FORMAT.SFD;7	23	1-MAY-1992	12:04:42.73
FORMAT.SFD;6	23	1-MAY-1992	12:04:42.73
FORMAT.SFD;5	23	1-MAY-1992	12:04:42.73
FORMAT.SFD;4	23	1-MAY-1992	12:04:42.73
FORMAT.SFD;3	23	1-MAY-1992	12:04:42.73
FORMAT.SFD;2	23	1-MAY-1992	12:04:42.73
FORMAT.SFD;1	23	1-MAY-1992	12:04:42.73
ISEEAPWI.FORMAT;2	23	1-MAY-1992	12:04:42.73
ISEEAPWI.FORMAT;1	23	1-MAY-1992	12:04:42.73
ISEEAPWI.VOLDESC;1	59	18-MAY-1992	13:05:52.44

Total of 16 files, 404 blocks.

Directory 1DUB62:[ISEEAPWI]

FORMAT.SFD;1	23	1-MAY-1992	12:04:42.73
ISEEAPWI.80023;1	36455	30-MAR-1992	21:57:34.23
ISEEAPWI.80024;1	34061	30-MAR-1992	22:02:01.24
ISEEAPWI.80025;1	11822	30-MAR-1992	22:05:49.71
ISEEAPWI.80026;1	9253	30-MAR-1992	22:07:18.83
ISEEAPWI.80027;2	7936	30-MAR-1992	22:08:30.59
ISEEAPWI.80027;1	7936	30-MAR-1992	22:08:30.59
ISEEAPWI.80028;1	8672	30-MAR-1992	22:09:34.52
ISEEAPWI.80029;1	8721	30-MAR-1992	22:10:44.51
ISEEAPWI.80030;1	8981	30-MAR-1992	22:11:55.34
ISEEAPWI.80031;1	9007	30-MAR-1992	22:13:06.03
ISEEAPWI.80032;1	7816	30-MAR-1992	22:14:15.34
ISEEAPWI.80033;1	8902	30-MAR-1992	22:15:16.92
ISEEAPWI.80034;1	14727	30-MAR-1992	22:16:38.13
ISEEAPWI.80035;1	34009	30-MAR-1992	22:19:01.90

ISEEAPWI.80036;1	34355	30-MAR-1992	22:23:22.76
ISEEAPWI.80037;1	11427	30-MAR-1992	22:27:14.99
ISEEAPWI.80038;1	8758	30-MAR-1992	22:28:42.32
ISEEAPWI.80039;1	8235	30-MAR-1992	22:29:50.77
ISEEAPWI.80040;1	8508	30-MAR-1992	22:30:56.50
ISEEAPWI.80041;1	8907	30-MAR-1992	22:32:02.20
ISEEAPWI.80042;1	9275	30-MAR-1992	22:33:15.53
ISEEAPWI.80043;1	9187	30-MAR-1992	22:34:30.72
ISEEAPWI.80044;1	7520	30-MAR-1992	22:35:43.31
ISEEAPWI.80045;1	8049	30-MAR-1992	22:36:45.42
ISEEAPWI.80046;1	14562	30-MAR-1992	22:37:59.06
ISEEAPWI.80047;1	29109	30-MAR-1992	22:40:15.52
ISEEAPWI.80048;1	26065	30-MAR-1992	22:44:00.65
ISEEAPWI.80049;1	9265	30-MAR-1992	22:46:56.65
ISEEAPWI.80050;1	7493	30-MAR-1992	22:48:04.98
ISEEAPWI.80051;1	7403	30-MAR-1992	22:49:05.57
ISEEAPWI.80052;1	6949	30-MAR-1992	22:50:06.05
ISEEAPWI.80053;1	7027	30-MAR-1992	22:51:02.54
ISEEAPWI.80054;1	6872	30-MAR-1992	22:51:58.22
ISEEAPWI.80055;1	5758	30-MAR-1992	22:52:51.62
ISEEAPWI.80056;1	7450	30-MAR-1992	22:54:18.75
ISEEAPWI.80057;1	7642	30-MAR-1992	22:55:16.09
ISEEAPWI.80058;1	14063	30-MAR-1992	22:56:27.74
ISEEAPWI.80059;1	31531	30-MAR-1992	22:58:49.08
ISEEAPWI.80060;1	24046	30-MAR-1992	23:02:57.52
ISEEAPWI.80061;1	10050	30-MAR-1992	23:05:45.72
ISEEAPWI.80062;1	9189	30-MAR-1992	23:07:02.93
ISEEAPWI.80063;1	7823	30-MAR-1992	23:08:16.18
ISEEAPWI.80064;1	7315	30-MAR-1992	23:09:30.78
ISEEAPWI.80065;1	8049	30-MAR-1992	23:10:31.07
ISEEAPWI.80066;1	7618	30-MAR-1992	23:11:34.98
ISEEAPWI.80067;1	8823	30-MAR-1992	23:12:40.35
ISEEAPWI.80068;1	7125	30-MAR-1992	23:13:54.12
ISEEAPWI.80069;1	7860	30-MAR-1992	23:14:52.51
ISEEAPWI.80070;1	13718	30-MAR-1992	23:16:03.16
ISEEAPWI.80071;1	29752	30-MAR-1992	23:18:19.64
ISEEAPWI.80072;1	34346	30-MAR-1992	23:22:13.68
ISEEAPWI.80073;1	9029	30-MAR-1992	23:26:12.72
ISEEAPWI.80074;1	7969	30-MAR-1992	23:27:24.12
ISEEAPWI.80075;1	9002	30-MAR-1992	23:28:36.86
ISEEAPWI.80076;1	7860	30-MAR-1992	23:29:49.22
ISEEAPWI.80077;1	8661	30-MAR-1992	23:30:55.79
ISEEAPWI.80078;2	8790	30-MAR-1992	23:32:08.64
ISEEAPWI.80078;1	8790	30-MAR-1992	23:32:08.64
ISEEAPWI.80079;1	8428	30-MAR-1992	23:33:17.18
ISEEAPWI.80080;1	7578	30-MAR-1992	23:34:21.48
ISEEAPWI.80081;1	8713	30-MAR-1992	23:35:21.69
ISEEAPWI.80082;1	13565	30-MAR-1992	23:36:35.14
ISEEAPWI.80083;1	29649	30-MAR-1992	23:38:39.33
ISEEAPWI.80084;1	33432	30-MAR-1992	23:42:39.60
ISEEAPWI.80085;1	7391	30-MAR-1992	23:46:25.81
ISEEAPWI.80086;1	8333	30-MAR-1992	23:47:27.02
ISEEAPWI.80087;1	7676	30-MAR-1992	23:48:33.59
ISEEAPWI.80088;1	8751	30-MAR-1992	23:49:37.04
ISEEAPWI.80089;1	8462	30-MAR-1992	23:50:46.98
ISEEAPWI.80090;1	8718	30-MAR-1992	23:51:55.80
ISEEAPWI.80091;1	9270	30-MAR-1992	23:53:07.95
ISEEAPWI.80092;1	8278	30-MAR-1992	23:54:20.67
ISEEAPWI.80093;1	6411	30-MAR-1992	23:55:25.61
ISEEAPWI.80094;2	18747	30-MAR-1992	23:56:38.05

ISEEAPWI.80094;1	18747	30-MAR-1992	23:56:38.05
ISEEAPWI.80095;1	27341	30-MAR-1992	23:59:32.43
ISEEAPWI.80096;1	19761	31-MAR-1992	00:03:08.60
ISEEAPWI.80097;1	9077	31-MAR-1992	00:05:32.20
ISEEAPWI.80098;1	5746	31-MAR-1992	00:06:38.52
ISEEAPWI.80099;1	8876	31-MAR-1992	00:07:25.79
ISEEAPWI.80100;1	7297	31-MAR-1992	00:08:29.21
ISEEAPWI.80101;1	9019	31-MAR-1992	00:09:25.89
ISEEAPWI.80102;1	8228	31-MAR-1992	00:10:29.69
ISEEAPWI.80103;1	8125	31-MAR-1992	00:11:30.93
ISEEAPWI.80104;1	8300	31-MAR-1992	00:12:32.13
ISEEAPWI.80105;1	8354	31-MAR-1992	00:13:32.65
ISEEAPWI.80106;1	15658	31-MAR-1992	00:14:45.88
ISEEAPWI.80107;1	35084	31-MAR-1992	00:17:14.74
ISEEAPWI.80108;1	32775	31-MAR-1992	00:21:53.05
ISEEAPWI.80109;1	8694	31-MAR-1992	00:25:19.37
ISEEAPWI.80110;1	8941	31-MAR-1992	00:26:24.57
ISEEAPWI.80111;1	8319	31-MAR-1992	00:27:29.79
ISEEAPWI.80112;1	9139	31-MAR-1992	00:28:31.45
ISEEAPWI.80113;1	8733	31-MAR-1992	00:29:36.16
ISEEAPWI.80114;1	8446	31-MAR-1992	00:30:40.08
ISEEAPWI.80115;1	8428	31-MAR-1992	00:31:43.15
ISEEAPWI.80116;1	7169	31-MAR-1992	00:32:43.67
ISEEAPWI.80117;1	8599	31-MAR-1992	00:33:38.42
ISEEAPWI.80118;1	21083	31-MAR-1992	00:35:00.23
ISEEAPWI.80119;1	33160	31-MAR-1992	00:37:51.63
ISEEAPWI.80120;1	27734	31-MAR-1992	00:41:36.22
ISEEAPWI.80121;1	8194	31-MAR-1992	00:44:23.23
ISEEAPWI.80122;1	8869	31-MAR-1992	00:45:23.02
ISEEAPWI.80123;1	8531	31-MAR-1992	00:46:30.38
ISEEAPWI.80124;1	7687	31-MAR-1992	00:47:30.48
ISEEAPWI.80125;1	8352	31-MAR-1992	00:48:28.13
ISEEAPWI.80126;1	7570	31-MAR-1992	00:49:29.04
ISEEAPWI.80127;1	8414	31-MAR-1992	00:50:25.33
ISEEAPWI.80128;1	7886	31-MAR-1992	00:51:27.67
ISEEAPWI.80129;1	8436	31-MAR-1992	00:52:25.83
ISEEAPWI.80130;1	21091	31-MAR-1992	00:53:48.39
ISEEAPWI.80131;1	31758	31-MAR-1992	00:56:37.81
ISEEAPWI.80132;1	29683	31-MAR-1992	01:00:19.87
ISEEAPWI.80133;1	8842	31-MAR-1992	01:03:26.10
ISEEAPWI.80134;1	8782	31-MAR-1992	01:04:32.22
ISEEAPWI.80135;1	8147	31-MAR-1992	01:05:39.26
ISEEAPWI.80136;1	8847	31-MAR-1992	01:06:42.44
ISEEAPWI.80137;1	7917	31-MAR-1992	01:07:47.21
ISEEAPWI.80138;1	8508	31-MAR-1992	01:08:49.08
ISEEAPWI.80139;1	8287	31-MAR-1992	01:09:53.09
ISEEAPWI.80140;1	8192	31-MAR-1992	01:10:55.64
ISEEAPWI.80141;1	7413	31-MAR-1992	01:11:56.00
ISEEAPWI.80142;1	25077	31-MAR-1992	01:13:18.19
ISEEAPWI.80143;1	30177	31-MAR-1992	01:16:26.72
ISEEAPWI.80144;1	21617	31-MAR-1992	01:19:59.15
ISEEAPWI.80145;1	8849	31-MAR-1992	01:22:22.73
ISEEAPWI.80146;1	8292	31-MAR-1992	01:23:27.42
ISEEAPWI.80147;1	8586	31-MAR-1992	01:24:31.64
ISEEAPWI.80148;1	8764	31-MAR-1992	01:25:36.98
ISEEAPWI.80149;1	7126	31-MAR-1992	01:26:38.74
ISEEAPWI.80150;1	8646	31-MAR-1992	01:27:35.86
ISEEAPWI.80151;1	8245	31-MAR-1992	01:28:43.52
ISEEAPWI.80152;1	8933	31-MAR-1992	01:29:49.34
ISEEAPWI.80153;1	8489	31-MAR-1992	01:30:57.89

```
ISEEAPWI.80154;1                 21449  31-MAR-1992 01:32:23.92
ISEEAPWI.80155;1                 33270  31-MAR-1992 01:35:23.68
ISEEAPWI.80156;1                 24938  31-MAR-1992 01:39:14.13
ISEEAPWI.80157;1                  8089  31-MAR-1992 01:41:56.18
ISEEAPWI.80158;1                  6090  31-MAR-1992 01:42:55.91
ISEEAPWI.80159;1                  8305  31-MAR-1992 01:43:45.84
ISEEAPWI.80160;1                  8445  31-MAR-1992 01:44:50.87
ISEEAPWI.80161;1                  6944  31-MAR-1992 01:45:57.15
ISEEAPWI.80162;1                  8429  31-MAR-1992 01:46:54.33
ISEEAPWI.80163;1                  8531  31-MAR-1992 01:47:56.73
VOLDESC.SFD;1                       59  18-MAY-1992 13:05:52.44

Total of 146 files, 1832537 blocks.

Grand total of 3 directories, 175 files, 1834080 blocks.
```

Directory Listing of KV000022, Side 2
Label Name = **ISEEAPWI0008**

Directory 1DUB62:[000000]

000000.DIR;1	1	19-MAY-1992	10:12:37.42
BACKUP.SYS;1	0	19-MAY-1992	10:12:37.42
BADBLK.SYS;1	16	19-MAY-1992	10:12:37.42
BADLOG.SYS;1	1	19-MAY-1992	10:12:37.42
BAD_FILES.DIR;1	1	19-MAY-1992	10:12:43.97
BITMAP.SYS;1	32	19-MAY-1992	10:12:37.42
CONFIG.SYS;1	1	19-MAY-1992	10:12:44.86
CONTIN.SYS;1	0	19-MAY-1992	10:12:37.42
CORIMG.SYS;1	0	19-MAY-1992	10:12:37.42
INDEXF.SYS;1	1075	19-MAY-1992	10:12:37.42
ISEEAPWI.DIR;1	11	19-MAY-1992	10:12:43.43
OSECURE.SYS;1	0	19-MAY-1992	10:12:51.60
VOLSET.SYS;1	0	19-MAY-1992	10:12:37.42

Total of 13 files, 1138 blocks.

Directory 1DUB62:[ISEEAPWI]

FORMAT.SFD;1	23	1-MAY-1992	12:04:42.73
ISEEAPWI.80164;1	8257	31-MAR-1992	18:57:35.08
ISEEAPWI.80165;1	7606	31-MAR-1992	18:58:36.95
ISEEAPWI.80166;1	20271	31-MAR-1992	18:59:54.35
ISEEAPWI.80167;1	32708	31-MAR-1992	19:02:52.19
ISEEAPWI.80168;1	26234	31-MAR-1992	19:06:50.18
ISEEAPWI.80169;2	8740	31-MAR-1992	19:09:41.17
ISEEAPWI.80169;1	0	19-MAY-1992	10:30:15.64
ISEEAPWI.80170;1	8125	31-MAR-1992	19:10:47.63
ISEEAPWI.80171;1	8672	31-MAR-1992	19:11:49.32
ISEEAPWI.80172;1	8025	31-MAR-1992	19:12:55.75
ISEEAPWI.80173;1	7372	31-MAR-1992	19:13:55.98
ISEEAPWI.80174;1	9182	31-MAR-1992	19:14:56.72
ISEEAPWI.80175;1	8434	31-MAR-1992	19:16:05.89
ISEEAPWI.80176;1	7695	31-MAR-1992	19:17:09.02
ISEEAPWI.80177;1	7422	31-MAR-1992	19:18:07.47
ISEEAPWI.80178;1	25618	31-MAR-1992	19:19:32.81
ISEEAPWI.80179;1	29919	31-MAR-1992	19:22:52.07
ISEEAPWI.80180;1	20308	31-MAR-1992	19:26:23.40
ISEEAPWI.80181;1	9122	31-MAR-1992	19:28:39.69
ISEEAPWI.80182;1	7939	31-MAR-1992	19:29:46.34
ISEEAPWI.80183;1	6937	31-MAR-1992	19:30:45.99
ISEEAPWI.80184;1	8914	31-MAR-1992	19:31:40.79
ISEEAPWI.80185;1	8498	31-MAR-1992	19:32:49.54
ISEEAPWI.80186;1	9050	31-MAR-1992	19:33:56.35
ISEEAPWI.80187;1	8244	31-MAR-1992	19:35:03.60
ISEEAPWI.80188;1	8029	31-MAR-1992	19:36:07.33
ISEEAPWI.80189;1	8962	31-MAR-1992	19:37:15.86
ISEEAPWI.80190;1	28499	31-MAR-1992	19:38:59.15
ISEEAPWI.80191;1	34664	31-MAR-1992	19:42:44.41
ISEEAPWI.80192;1	17564	31-MAR-1992	19:46:38.98
ISEEAPWI.80193;1	9167	31-MAR-1992	19:48:44.45
ISEEAPWI.80194;1	8158	31-MAR-1992	19:49:54.03
ISEEAPWI.80195;1	8892	31-MAR-1992	19:50:58.50
ISEEAPWI.80196;1	8940	31-MAR-1992	19:52:05.61
ISEEAPWI.80197;1	8268	31-MAR-1992	19:53:12.76

ISEEAPWI.80198;1	8644	31-MAR-1992	19:54:16.07
ISEEAPWI.80199;1	8568	31-MAR-1992	19:55:22.68
ISEEAPWI.80200;1	8183	31-MAR-1992	19:56:28.86
ISEEAPWI.80201;1	8556	31-MAR-1992	19:57:32.94
ISEEAPWI.80202;1	30056	31-MAR-1992	19:59:10.32
ISEEAPWI.80203;1	32918	31-MAR-1992	20:03:00.27
ISEEAPWI.80204;1	20789	31-MAR-1992	20:06:52.71
ISEEAPWI.80205;1	7939	31-MAR-1992	20:09:09.50
ISEEAPWI.80206;1	7981	31-MAR-1992	20:10:11.17
ISEEAPWI.80207;1	7972	31-MAR-1992	20:11:12.58
ISEEAPWI.80208;1	7953	31-MAR-1992	20:12:11.87
ISEEAPWI.80209;1	7632	31-MAR-1992	20:13:12.23
ISEEAPWI.80210;1	8988	31-MAR-1992	20:14:13.61
ISEEAPWI.80211;1	8744	31-MAR-1992	20:15:22.68
ISEEAPWI.80212;1	7575	31-MAR-1992	20:16:30.16
ISEEAPWI.80213;1	6939	31-MAR-1992	20:17:28.74
ISEEAPWI.80214;1	25022	31-MAR-1992	20:18:46.37
ISEEAPWI.80215;1	32789	31-MAR-1992	20:21:59.94
ISEEAPWI.80216;1	18592	31-MAR-1992	20:25:35.05
ISEEAPWI.80217;1	8410	31-MAR-1992	20:27:37.37
ISEEAPWI.80218;2	7654	31-MAR-1992	20:28:39.06
ISEEAPWI.80218;1	7654	31-MAR-1992	20:28:39.06
ISEEAPWI.80219;1	7358	31-MAR-1992	20:29:38.27
ISEEAPWI.80220;1	7948	31-MAR-1992	20:30:36.33
ISEEAPWI.80221;1	7587	31-MAR-1992	20:31:41.13
ISEEAPWI.80222;1	7738	31-MAR-1992	20:32:41.82
ISEEAPWI.80223;1	7893	31-MAR-1992	20:33:47.84
ISEEAPWI.80224;1	8153	31-MAR-1992	20:35:13.65
ISEEAPWI.80225;1	6996	31-MAR-1992	20:36:19.27
ISEEAPWI.80226;1	26117	31-MAR-1992	20:37:43.82
ISEEAPWI.80227;1	26404	31-MAR-1992	20:41:19.03
ISEEAPWI.80228;1	15768	31-MAR-1992	20:44:27.40
ISEEAPWI.80229;1	8974	31-MAR-1992	20:46:18.17
ISEEAPWI.80230;1	8204	31-MAR-1992	20:47:27.75
ISEEAPWI.80231;1	8276	31-MAR-1992	20:48:30.16
ISEEAPWI.80232;1	8529	31-MAR-1992	20:49:35.51
ISEEAPWI.80233;1	6528	31-MAR-1992	20:50:39.60
ISEEAPWI.80234;1	8018	31-MAR-1992	20:51:33.33
ISEEAPWI.80235;2	9203	31-MAR-1992	20:52:38.19
ISEEAPWI.80235;1	9203	31-MAR-1992	20:52:38.19
ISEEAPWI.80236;1	8880	31-MAR-1992	20:53:51.01
ISEEAPWI.80237;1	8661	31-MAR-1992	20:55:06.42
ISEEAPWI.80238;1	24188	31-MAR-1992	20:56:38.94
ISEEAPWI.80239;1	35451	31-MAR-1992	21:00:05.77
ISEEAPWI.80240;1	14840	31-MAR-1992	21:04:09.53
ISEEAPWI.80241;1	8342	31-MAR-1992	21:05:55.29
ISEEAPWI.80242;1	8727	31-MAR-1992	21:07:03.55
ISEEAPWI.80243;1	8041	31-MAR-1992	21:08:11.51
ISEEAPWI.80244;1	7572	31-MAR-1992	21:09:14.56
ISEEAPWI.80245;1	8531	31-MAR-1992	21:10:15.62
ISEEAPWI.80246;1	7575	31-MAR-1992	21:11:25.28
ISEEAPWI.80247;1	7926	31-MAR-1992	21:12:28.08
ISEEAPWI.80248;1	7403	31-MAR-1992	21:13:32.00
ISEEAPWI.80249;1	9497	31-MAR-1992	21:14:35.72
ISEEAPWI.80250;1	27875	31-MAR-1992	21:16:20.13
ISEEAPWI.80251;1	25794	31-MAR-1992	21:19:56.65
ISEEAPWI.80252;1	14893	31-MAR-1992	21:23:02.24
ISEEAPWI.80253;1	6884	31-MAR-1992	21:24:52.82
ISEEAPWI.80254;1	7565	31-MAR-1992	21:25:50.12
ISEEAPWI.80255;1	5506	31-MAR-1992	21:26:47.86

ISEEAPWI.80256;1	6753	31-MAR-1992	21:27:34.39
ISEEAPWI.80257;1	7336	31-MAR-1992	21:28:29.50
ISEEAPWI.80258;1	6466	31-MAR-1992	21:29:26.83
ISEEAPWI.80259;1	8495	31-MAR-1992	21:30:22.29
ISEEAPWI.80260;1	6808	31-MAR-1992	21:31:29.57
ISEEAPWI.80261;1	6810	31-MAR-1992	21:32:24.61
ISEEAPWI.80262;1	31985	31-MAR-1992	21:33:57.64
ISEEAPWI.80263;1	26443	31-MAR-1992	21:38:00.46
ISEEAPWI.80264;1	14182	31-MAR-1992	21:41:12.45
ISEEAPWI.80265;1	7008	31-MAR-1992	21:42:55.43
ISEEAPWI.80266;1	6863	31-MAR-1992	21:43:53.02
ISEEAPWI.80267;1	7438	31-MAR-1992	21:44:53.26
ISEEAPWI.80268;1	7505	31-MAR-1992	21:45:56.41
ISEEAPWI.80269;1	7902	31-MAR-1992	21:47:01.64
ISEEAPWI.80270;1	6351	31-MAR-1992	21:48:04.70
ISEEAPWI.80271;1	7515	31-MAR-1992	21:49:00.86
ISEEAPWI.80272;1	6552	31-MAR-1992	21:49:57.99
ISEEAPWI.80273;1	12485	31-MAR-1992	21:50:55.00
ISEEAPWI.80274;1	24952	31-MAR-1992	21:52:50.17
ISEEAPWI.80275;1	29900	31-MAR-1992	21:56:17.80
ISEEAPWI.80276;1	9696	31-MAR-1992	21:59:52.55
ISEEAPWI.80277;1	6516	31-MAR-1992	22:00:56.66
ISEEAPWI.80278;1	5055	31-MAR-1992	22:01:41.80
ISEEAPWI.80279;1	6803	31-MAR-1992	22:02:21.05
ISEEAPWI.80280;1	6616	31-MAR-1992	22:03:11.54
ISEEAPWI.80281;1	8111	31-MAR-1992	22:04:01.60
ISEEAPWI.80282;1	4607	31-MAR-1992	22:04:58.53
ISEEAPWI.80283;1	6102	31-MAR-1992	22:05:34.92
ISEEAPWI.80284;1	7470	31-MAR-1992	22:06:21.61
ISEEAPWI.80285;1	8233	31-MAR-1992	22:07:18.57
ISEEAPWI.80286;1	26019	31-MAR-1992	22:08:43.03
ISEEAPWI.80287;1	27531	31-MAR-1992	22:12:05.88
ISEEAPWI.80288;1	11394	31-MAR-1992	22:15:19.02
ISEEAPWI.80289;1	6704	31-MAR-1992	22:16:36.76
ISEEAPWI.80290;1	5286	31-MAR-1992	22:17:28.16
ISEEAPWI.80291;1	7640	31-MAR-1992	22:18:10.07
ISEEAPWI.80292;1	6618	31-MAR-1992	22:19:03.27
ISEEAPWI.80293;1	7236	31-MAR-1992	22:19:52.67
ISEEAPWI.80294;1	8020	31-MAR-1992	22:20:46.77
ISEEAPWI.80295;1	9122	31-MAR-1992	22:21:45.95
ISEEAPWI.80296;1	8794	31-MAR-1992	22:22:53.04
ISEEAPWI.80297;1	13675	31-MAR-1992	22:24:03.07
ISEEAPWI.80298;1	31428	31-MAR-1992	22:26:13.07
ISEEAPWI.80299;1	32342	31-MAR-1992	22:30:26.14
ISEEAPWI.80300;1	8238	31-MAR-1992	22:34:16.06
ISEEAPWI.80301;1	7135	31-MAR-1992	22:35:16.36
ISEEAPWI.80302;1	8905	31-MAR-1992	22:36:12.39
ISEEAPWI.80303;1	7888	31-MAR-1992	22:37:17.00
ISEEAPWI.80304;1	7073	31-MAR-1992	22:38:13.68
ISEEAPWI.80305;1	6989	31-MAR-1992	22:39:04.96
ISEEAPWI.80306;1	7865	31-MAR-1992	22:39:57.44
ISEEAPWI.80307;1	8366	31-MAR-1992	22:40:55.67
ISEEAPWI.80308;1	8422	31-MAR-1992	22:41:57.71
ISEEAPWI.80309;1	15603	31-MAR-1992	22:43:09.29
ISEEAPWI.80310;1	26373	31-MAR-1992	22:45:20.50
VOLDESC.SFD;1	59	18-MAY-1992	13:07:20.87

Total of 152 files, 1800747 blocks.

Grand total of 2 directories, 165 files, 1801885 blocks.

Directory Listing of KV000023, Side 1
Label Name = **ISEEAPWI0009**

Directory 1DUB62:[000000]

000000.DIR;1	1	19-MAY-1992	15:56:53.96
BACKUP.SYS;1	0	19-MAY-1992	15:56:53.96
BADBLK.SYS;1	16	19-MAY-1992	15:56:53.96
BADLOG.SYS;1	1	19-MAY-1992	15:56:53.96
BAD_FILES.DIR;1	1	19-MAY-1992	15:57:00.52
BITMAP.SYS;1	32	19-MAY-1992	15:56:53.96
CONFIG.SYS;1	1	19-MAY-1992	15:57:01.37
CONTIN.SYS;1	0	19-MAY-1992	15:56:53.96
CORIMG.SYS;1	0	19-MAY-1992	15:56:53.96
INDEXF.SYS;1	1075	19-MAY-1992	15:56:53.96
ISEEAPWI.DIR;1	4	19-MAY-1992	15:56:59.97
OSECURE.SYS;1	0	19-MAY-1992	15:57:07.86
VOLSET.SYS;1	0	19-MAY-1992	15:56:53.96

Total of 13 files, 1131 blocks.

Directory 1DUB62:[ISEEAPWI]

FORMAT.SFD;1	23	1-MAY-1992	12:04:42.73
ISEEAPWI.80311;1	31686	1-APR-1992	15:32:23.14
ISEEAPWI.80312;1	10543	1-APR-1992	15:35:39.50
ISEEAPWI.80313;1	30802	1-APR-1992	15:37:27.13
ISEEAPWI.80314;1	34931	1-APR-1992	15:41:23.62
ISEEAPWI.80315;1	32114	1-APR-1992	15:46:07.86
ISEEAPWI.80316;1	28083	1-APR-1992	15:50:14.03
ISEEAPWI.80317;1	32409	1-APR-1992	15:54:02.75
ISEEAPWI.80318;1	26510	1-APR-1992	16:00:53.48
ISEEAPWI.80319;1	34200	1-APR-1992	16:06:36.43
ISEEAPWI.80320;1	29565	1-APR-1992	16:11:54.00
ISEEAPWI.80321;1	26074	1-APR-1992	16:17:33.67
ISEEAPWI.80322;1	26371	1-APR-1992	16:21:10.54
ISEEAPWI.80323;1	25718	1-APR-1992	16:25:14.93
ISEEAPWI.80324;1	8237	1-APR-1992	16:29:44.61
ISEEAPWI.80325;1	7800	1-APR-1992	16:31:43.48
ISEEAPWI.80326;1	7988	1-APR-1992	16:32:55.94
ISEEAPWI.80327;1	8653	1-APR-1992	16:34:31.85
ISEEAPWI.80328;1	6932	1-APR-1992	16:35:37.92
ISEEAPWI.80329;1	7914	1-APR-1992	16:37:05.10
ISEEAPWI.80330;1	7235	1-APR-1992	16:38:19.89
ISEEAPWI.80331;1	8070	1-APR-1992	16:39:32.02
ISEEAPWI.80332;1	7310	1-APR-1992	16:40:45.73
ISEEAPWI.80333;1	19343	1-APR-1992	16:42:03.59
ISEEAPWI.80334;1	31051	1-APR-1992	16:46:02.75
ISEEAPWI.80335;1	29764	1-APR-1992	16:51:09.87
ISEEAPWI.80336;1	8660	1-APR-1992	16:54:08.85
ISEEAPWI.80337;1	8278	1-APR-1992	16:55:09.16
ISEEAPWI.80338;1	6999	1-APR-1992	16:56:05.69
ISEEAPWI.80339;1	6655	1-APR-1992	16:56:55.13
ISEEAPWI.80340;1	7695	1-APR-1992	16:57:45.59
ISEEAPWI.80341;1	7981	1-APR-1992	16:58:38.70
ISEEAPWI.80342;1	7721	1-APR-1992	16:59:34.22
ISEEAPWI.80343;1	7711	1-APR-1992	17:00:30.28
ISEEAPWI.80344;1	7829	1-APR-1992	17:01:29.60
ISEEAPWI.80345;1	19575	1-APR-1992	17:02:47.89

```
ISEEAPWI.80346;1                 31416   1-APR-1992 17:05:25.49
ISEEAPWI.80347;1                 29259   1-APR-1992 17:09:00.12
ISEEAPWI.80348;1                  9189   1-APR-1992 17:12:33.89
ISEEAPWI.80349;1                  7683   1-APR-1992 17:13:38.73
ISEEAPWI.80350;1                  7670   1-APR-1992 17:14:36.31
ISEEAPWI.80351;1                  8704   1-APR-1992 17:15:34.72
ISEEAPWI.80352;1                  8178   1-APR-1992 17:16:38.95
ISEEAPWI.80353;1                  8873   1-APR-1992 17:17:39.83
ISEEAPWI.80354;1                  8324   1-APR-1992 17:18:45.09
ISEEAPWI.80355;1                  8988   1-APR-1992 17:19:48.68
ISEEAPWI.80356;1                  8287   1-APR-1992 17:20:53.94
ISEEAPWI.80357;1                 19515   1-APR-1992 17:22:11.96
ISEEAPWI.80358;1                 32507   1-APR-1992 17:24:58.46
ISEEAPWI.80359;1                 26908   1-APR-1992 17:28:59.86
ISEEAPWI.80360;1                  5282   1-APR-1992 17:31:52.11
ISEEAPWI.80361;1                  8414   1-APR-1992 17:32:35.86
ISEEAPWI.80362;1                  7725   1-APR-1992 17:33:37.66
ISEEAPWI.80363;1                  7768   1-APR-1992 17:34:36.83
ISEEAPWI.80364;1                  8355   1-APR-1992 17:35:34.28
ISEEAPWI.80365;1                  9172   1-APR-1992 17:36:36.55
ISEEAPWI.80366;1                  8780   1-APR-1992 17:37:42.87
VOLDESC.SFD;1                       59  21-MAY-1992 10:27:59.37

Total of 58 files, 879486 blocks.

Grand total of 2 directories, 71 files, 880617 blocks.
```

Directory Listing of KV000023, Side 2
Label Name = **ISEEAPWI0010**

Directory 1DUB62:[000000]

000000.DIR;1	1	21-MAY-1992	13:53:13.79
BACKUP.SYS;1	0	21-MAY-1992	13:53:13.79
BADBLK.SYS;1	16	21-MAY-1992	13:53:13.79
BADLOG.SYS;1	1	21-MAY-1992	13:53:13.79
BAD_FILES.DIR;1	1	21-MAY-1992	13:53:20.64
BITMAP.SYS;1	32	21-MAY-1992	13:53:13.79
CONFIG.SYS;1	1	21-MAY-1992	13:53:21.54
CONTIN.SYS;1	0	21-MAY-1992	13:53:13.79
CORIMG.SYS;1	0	21-MAY-1992	13:53:13.79
INDEXF.SYS;1	1075	21-MAY-1992	13:53:13.79
ISEEAPWI.DIR;1	11	21-MAY-1992	13:53:20.11
OSECURE.SYS;1	0	21-MAY-1992	13:53:28.02
VOLSET.SYS;1	0	21-MAY-1992	13:53:13.79

Total of 13 files, 1138 blocks.

Directory 1DUB62:[ISEEAPWI]

FORMAT.SFD;1	23	1-MAY-1992	12:04:42.73
ISEEAPWI.82288;1	7352	15-MAY-1992	00:27:42.55
ISEEAPWI.82289;1	6391	15-MAY-1992	00:28:54.95
ISEEAPWI.82290;1	6166	15-MAY-1992	00:29:57.62
ISEEAPWI.82291;1	6494	15-MAY-1992	00:30:57.85
ISEEAPWI.82292;1	6867	15-MAY-1992	00:32:02.01
ISEEAPWI.82293;1	8553	15-MAY-1992	00:33:11.69
ISEEAPWI.82294;1	6709	15-MAY-1992	00:34:33.05
ISEEAPWI.82295;1	11566	15-MAY-1992	00:35:48.03
ISEEAPWI.82296;1	20460	15-MAY-1992	00:37:59.57
ISEEAPWI.82297;1	33628	15-MAY-1992	00:41:39.84
ISEEAPWI.82298;1	5370	15-MAY-1992	00:46:17.27
ISEEAPWI.82299;1	5684	15-MAY-1992	00:47:10.31
ISEEAPWI.82300;1	6826	15-MAY-1992	00:48:08.16
ISEEAPWI.82301;1	6855	15-MAY-1992	00:49:15.05
ISEEAPWI.82302;1	5937	15-MAY-1992	00:50:20.53
ISEEAPWI.82303;1	5939	15-MAY-1992	00:51:20.15
ISEEAPWI.82304;1	6224	15-MAY-1992	00:52:19.69
ISEEAPWI.82305;1	6422	15-MAY-1992	00:53:22.14
ISEEAPWI.82306;1	3897	15-MAY-1992	00:54:23.04
ISEEAPWI.82307;1	10689	15-MAY-1992	00:55:16.66
ISEEAPWI.82308;1	18474	15-MAY-1992	00:57:23.51
ISEEAPWI.82309;1	22736	15-MAY-1992	01:00:33.01
ISEEAPWI.82310;1	4105	15-MAY-1992	01:03:49.30
ISEEAPWI.82311;1	5841	15-MAY-1992	01:04:33.72
ISEEAPWI.82312;1	6487	15-MAY-1992	01:05:32.38
ISEEAPWI.82313;1	6293	15-MAY-1992	01:06:36.93
ISEEAPWI.82314;1	5965	15-MAY-1992	01:07:39.36
ISEEAPWI.82315;1	2383	15-MAY-1992	01:08:31.50
ISEEAPWI.82316;1	4045	15-MAY-1992	01:08:59.16
ISEEAPWI.82317;1	4614	15-MAY-1992	01:09:41.29
ISEEAPWI.82318;1	4883	15-MAY-1992	01:10:27.79
ISEEAPWI.82319;1	7183	15-MAY-1992	01:11:20.78
ISEEAPWI.82320;1	23290	15-MAY-1992	01:13:02.46
ISEEAPWI.82321;1	25596	15-MAY-1992	01:16:54.48
ISEEAPWI.82322;1	6033	15-MAY-1992	01:20:34.28

ISEEAPWI.82323;1	7817	15-MAY-1992	01:21:39.92
ISEEAPWI.82324;1	6152	15-MAY-1992	01:22:59.23
ISEEAPWI.82325;1	5997	15-MAY-1992	01:24:00.96
ISEEAPWI.82326;1	5150	15-MAY-1992	01:25:00.07
ISEEAPWI.82327;1	5635	15-MAY-1992	01:25:53.60
ISEEAPWI.82328;1	4413	15-MAY-1992	01:26:50.01
ISEEAPWI.82329;1	4730	15-MAY-1992	01:27:36.96
ISEEAPWI.82330;1	6093	15-MAY-1992	01:28:27.63
ISEEAPWI.82331;1	10461	15-MAY-1992	01:29:37.29
ISEEAPWI.82332;1	12687	15-MAY-1992	01:31:25.31
ISEEAPWI.82333;1	28791	15-MAY-1992	01:34:03.37
ISEEAPWI.82334;1	6578	15-MAY-1992	01:38:14.32
ISEEAPWI.82335;1	6258	15-MAY-1992	01:39:19.81
ISEEAPWI.82336;1	6556	15-MAY-1992	01:40:23.92
ISEEAPWI.82337;1	6056	15-MAY-1992	01:41:26.69
ISEEAPWI.82338;1	4254	15-MAY-1992	01:42:24.14
ISEEAPWI.82339;1	5401	15-MAY-1992	01:43:09.39
ISEEAPWI.82340;1	5172	15-MAY-1992	01:44:04.92
ISEEAPWI.82341;1	6673	15-MAY-1992	01:45:01.72
ISEEAPWI.82342;1	5660	15-MAY-1992	01:46:07.72
ISEEAPWI.82343;1	13996	15-MAY-1992	01:47:22.68
ISEEAPWI.82344;1	6224	15-MAY-1992	01:49:27.11
ISEEAPWI.82345;1	18199	15-MAY-1992	01:50:55.40
ISEEAPWI.82346;1	6573	15-MAY-1992	01:53:29.81
ISEEAPWI.82347;1	6889	15-MAY-1992	01:54:32.33
ISEEAPWI.82348;1	7290	15-MAY-1992	01:55:37.15
ISEEAPWI.82349;1	6190	15-MAY-1992	01:56:42.43
ISEEAPWI.82350;1	6970	15-MAY-1992	01:57:41.52
ISEEAPWI.82351;1	4033	15-MAY-1992	01:58:39.49
ISEEAPWI.82352;1	6441	15-MAY-1992	01:59:22.18
ISEEAPWI.82353;1	5580	15-MAY-1992	02:00:20.10
ISEEAPWI.82354;1	6613	15-MAY-1992	02:01:15.21
ISEEAPWI.82355;1	16652	15-MAY-1992	02:02:39.85
ISEEAPWI.82356;1	24799	15-MAY-1992	02:05:42.75
ISEEAPWI.82357;1	20933	15-MAY-1992	02:09:30.69
ISEEAPWI.82358;1	5442	15-MAY-1992	02:12:10.91
ISEEAPWI.82359;1	6477	15-MAY-1992	02:13:04.33
ISEEAPWI.82360;1	6544	15-MAY-1992	02:14:06.25
ISEEAPWI.82361;1	4655	15-MAY-1992	02:15:03.48
ISEEAPWI.82362;1	5543	15-MAY-1992	02:15:50.60
ISEEAPWI.82363;1	5698	15-MAY-1992	02:16:42.96
ISEEAPWI.82364;1	6875	15-MAY-1992	02:17:37.82
ISEEAPWI.82365;1	5619	15-MAY-1992	02:18:39.42
ISEEAPWI.83001;1	4328	12-MAY-1992	11:03:45.03
ISEEAPWI.83002;1	15064	12-MAY-1992	11:04:51.05
ISEEAPWI.83003;1	26201	12-MAY-1992	11:07:45.33
ISEEAPWI.83004;2	18446	12-MAY-1992	11:11:51.15
ISEEAPWI.83004;1	18446	12-MAY-1992	11:11:51.15
ISEEAPWI.83005;1	5870	12-MAY-1992	11:14:28.52
ISEEAPWI.83006;1	3885	12-MAY-1992	11:15:24.09
ISEEAPWI.83007;1	5083	12-MAY-1992	11:16:06.27
ISEEAPWI.83008;1	5889	12-MAY-1992	11:16:59.98
ISEEAPWI.83009;1	6836	12-MAY-1992	11:18:01.25
ISEEAPWI.83010;1	3610	12-MAY-1992	11:19:04.63
ISEEAPWI.83011;1	6862	12-MAY-1992	11:19:48.94
ISEEAPWI.83012;1	6215	12-MAY-1992	23:42:20.95
ISEEAPWI.83013;1	5287	12-MAY-1992	23:43:21.11
ISEEAPWI.83014;1	16994	12-MAY-1992	23:44:33.93
ISEEAPWI.83015;1	24594	12-MAY-1992	23:47:34.58
ISEEAPWI.83016;1	19476	12-MAY-1992	23:51:15.31

ISEEAPWI.83017;1	6016	12-MAY-1992	23:53:54.70
ISEEAPWI.83018;1	5922	12-MAY-1992	23:54:53.85
ISEEAPWI.83019;1	4584	12-MAY-1992	23:55:53.02
ISEEAPWI.83020;1	7293	12-MAY-1992	23:56:43.95
ISEEAPWI.83021;1	5641	12-MAY-1992	23:57:53.18
ISEEAPWI.83022;2	6582	12-MAY-1992	23:58:51.11
ISEEAPWI.83022;1	6582	12-MAY-1992	23:58:51.11
ISEEAPWI.83023;1	7035	12-MAY-1992	23:59:58.11
ISEEAPWI.83024;1	5327	13-MAY-1992	00:01:05.16
ISEEAPWI.83025;1	6643	13-MAY-1992	00:02:01.22
ISEEAPWI.83026;2	13352	13-MAY-1992	00:03:20.22
ISEEAPWI.83026;1	13352	13-MAY-1992	00:03:20.22
ISEEAPWI.83027;1	21896	13-MAY-1992	00:05:46.97
ISEEAPWI.83028;1	19957	13-MAY-1992	00:09:20.54
ISEEAPWI.83029;1	6272	13-MAY-1992	00:12:20.93
ISEEAPWI.83030;1	6494	13-MAY-1992	00:13:23.99
ISEEAPWI.83031;1	3727	13-MAY-1992	00:14:23.46
ISEEAPWI.83032;1	6985	13-MAY-1992	00:15:08.06
ISEEAPWI.83033;1	6566	13-MAY-1992	00:16:17.71
ISEEAPWI.83034;1	7914	13-MAY-1992	00:17:27.02
ISEEAPWI.83035;1	6991	13-MAY-1992	00:18:46.88
ISEEAPWI.83036;1	5366	13-MAY-1992	00:19:54.34
ISEEAPWI.83037;1	7647	13-MAY-1992	00:20:54.15
ISEEAPWI.83038;1	21590	13-MAY-1992	00:22:39.26
ISEEAPWI.83039;1	23430	13-MAY-1992	00:26:14.71
ISEEAPWI.83040;1	21145	13-MAY-1992	00:30:03.24
ISEEAPWI.83041;1	7668	13-MAY-1992	00:33:09.16
ISEEAPWI.83042;1	6839	13-MAY-1992	00:34:25.65
ISEEAPWI.83043;1	6380	13-MAY-1992	00:35:36.28
ISEEAPWI.83044;1	6600	13-MAY-1992	00:36:41.76
ISEEAPWI.83045;1	5609	13-MAY-1992	00:37:47.43
ISEEAPWI.83046;1	7958	13-MAY-1992	00:38:50.92
ISEEAPWI.83047;1	5708	13-MAY-1992	00:40:09.08
ISEEAPWI.83048;1	6705	13-MAY-1992	00:41:10.68
ISEEAPWI.83049;1	7140	13-MAY-1992	00:42:19.75
ISEEAPWI.83050;1	16812	13-MAY-1992	00:43:51.52
ISEEAPWI.83051;1	22997	13-MAY-1992	00:46:51.55
ISEEAPWI.83052;2	14103	13-MAY-1992	00:50:23.06
ISEEAPWI.83052;1	14103	13-MAY-1992	00:50:23.06
ISEEAPWI.83053;1	7039	13-MAY-1992	00:52:26.23
ISEEAPWI.83054;1	6614	13-MAY-1992	00:53:36.06
ISEEAPWI.83055;1	3476	13-MAY-1992	00:54:37.04
ISEEAPWI.83056;1	7970	13-MAY-1992	00:55:22.73
ISEEAPWI.83057;1	4908	13-MAY-1992	00:56:38.36
ISEEAPWI.83058;1	7828	13-MAY-1992	00:57:33.10
ISEEAPWI.83059;1	4430	13-MAY-1992	00:58:45.98
ISEEAPWI.83060;1	7979	13-MAY-1992	00:59:38.51
ISEEAPWI.83061;1	6614	13-MAY-1992	01:00:57.64
ISEEAPWI.83062;1	23525	13-MAY-1992	01:02:31.89
ISEEAPWI.83063;1	24623	13-MAY-1992	01:06:17.79
ISEEAPWI.83064;1	15091	13-MAY-1992	01:09:40.78
ISEEAPWI.83065;1	5090	13-MAY-1992	01:11:37.59
ISEEAPWI.83066;1	6808	13-MAY-1992	01:12:29.93
ISEEAPWI.83067;1	6793	13-MAY-1992	01:13:33.17
ISEEAPWI.83068;1	7350	13-MAY-1992	01:14:37.69
ISEEAPWI.83069;1	5456	13-MAY-1992	01:15:42.28
ISEEAPWI.83070;1	6793	13-MAY-1992	01:16:36.07
ISEEAPWI.83071;1	5494	13-MAY-1992	01:17:36.90
ISEEAPWI.83072;1	7508	13-MAY-1992	01:18:32.66
ISEEAPWI.83073;1	8168	13-MAY-1992	01:19:43.63

```
ISEEAPWI.83074;1                    16026  13-MAY-1992 01:21:15.43
VOLDESC.SFD;1                          59  21-MAY-1992 10:35:56.76

Total of 158 files, 1452408 blocks.

Grand total of 2 directories, 171 files, 1453546 blocks.
```

Directory Listing of KV0000024, Side 1
Label Name = **ISEEAPWI0011**

Directory 1DUB62:[000000]

000000.DIR;1	1	22-MAY-1992	14:43:28.36
BACKUP.SYS;1	0	22-MAY-1992	14:43:28.36
BADBLK.SYS;1	16	22-MAY-1992	14:43:28.36
BADLOG.SYS;1	1	22-MAY-1992	14:43:28.36
BAD_FILES.DIR;1	1	22-MAY-1992	14:43:35.97
BITMAP.SYS;1	32	22-MAY-1992	14:43:28.36
CONFIG.SYS;1	1	22-MAY-1992	14:43:37.55
CONTIN.SYS;1	0	22-MAY-1992	14:43:28.36
CORIMG.SYS;1	0	22-MAY-1992	14:43:28.36
INDEXF.SYS;1	1075	22-MAY-1992	14:43:28.36
ISEEAPWI.DIR;1	11	22-MAY-1992	14:43:35.34
OSECURE.SYS;1	0	22-MAY-1992	14:43:49.85
VOLSET.SYS;1	0	22-MAY-1992	14:43:28.36

Total of 13 files, 1138 blocks.

Directory 1DUB62:[ISEEAPWI]

FORMAT.SFD;1	23	1-MAY-1992	12:04:42.73
ISEEAPWI.83075;1	24565	13-MAY-1992	01:23:56.75
ISEEAPWI.83076;1	12943	13-MAY-1992	01:27:23.40
ISEEAPWI.83077;1	7211	13-MAY-1992	01:29:11.88
ISEEAPWI.83078;1	8166	13-MAY-1992	01:30:21.41
ISEEAPWI.83079;1	7951	13-MAY-1992	01:31:37.54
ISEEAPWI.83080;1	7549	13-MAY-1992	01:32:51.60
ISEEAPWI.83081;1	6430	13-MAY-1992	01:34:01.11
ISEEAPWI.83082;1	6774	13-MAY-1992	01:35:02.43
ISEEAPWI.83083;1	5231	13-MAY-1992	01:36:03.52
ISEEAPWI.83084;1	7446	13-MAY-1992	01:36:57.42
ISEEAPWI.83085;1	7188	13-MAY-1992	01:38:06.39
ISEEAPWI.83086;1	17410	13-MAY-1992	23:09:51.04
ISEEAPWI.83087;1	25154	13-MAY-1992	23:13:02.29
ISEEAPWI.83088;1	12793	13-MAY-1992	23:16:42.87
ISEEAPWI.83089;1	3220	13-MAY-1992	23:18:28.47
ISEEAPWI.83090;1	5720	13-MAY-1992	23:19:07.58
ISEEAPWI.83091;1	4815	13-MAY-1992	23:20:01.17
ISEEAPWI.83092;1	5133	13-MAY-1992	23:20:49.10
ISEEAPWI.83093;1	6496	13-MAY-1992	23:21:42.76
ISEEAPWI.83094;1	3749	13-MAY-1992	23:22:41.87
ISEEAPWI.83095;1	1979	13-MAY-1992	23:23:13.64
ISEEAPWI.83096;1	2286	13-MAY-1992	23:23:33.89
ISEEAPWI.83097;1	3854	13-MAY-1992	23:23:59.35
ISEEAPWI.83098;1	10827	13-MAY-1992	23:24:49.85
ISEEAPWI.83099;1	14123	13-MAY-1992	23:26:38.58
ISEEAPWI.83100;1	10930	13-MAY-1992	23:28:45.72
ISEEAPWI.83101;1	4325	13-MAY-1992	23:30:15.33
ISEEAPWI.83102;1	5992	13-MAY-1992	23:31:01.08
ISEEAPWI.83103;1	6159	13-MAY-1992	23:31:59.47
ISEEAPWI.83104;1	4397	13-MAY-1992	23:32:54.78
ISEEAPWI.83105;1	4734	13-MAY-1992	23:33:39.04
ISEEAPWI.83106;1	2534	13-MAY-1992	23:34:22.16
ISEEAPWI.83107;1	3185	13-MAY-1992	23:34:49.21
ISEEAPWI.83108;1	5418	13-MAY-1992	23:35:25.02

ISEEAPWI.83109;1	6033	13-MAY-1992	23:36:18.50
ISEEAPWI.83110;1	4744	13-MAY-1992	23:37:12.51
ISEEAPWI.83111;1	18532	13-MAY-1992	23:38:27.90
ISEEAPWI.83112;1	9691	13-MAY-1992	23:41:15.36
ISEEAPWI.83113;1	3075	13-MAY-1992	23:42:31.75
ISEEAPWI.83114;1	3629	13-MAY-1992	23:43:02.95
ISEEAPWI.83115;1	3985	13-MAY-1992	23:43:38.87
ISEEAPWI.83116;1	5504	13-MAY-1992	23:44:21.38
ISEEAPWI.83117;1	4634	13-MAY-1992	23:45:13.34
ISEEAPWI.83118;1	3768	13-MAY-1992	23:45:56.32
ISEEAPWI.83119;1	6973	13-MAY-1992	23:46:39.63
ISEEAPWI.83120;1	5672	13-MAY-1992	23:47:44.65
ISEEAPWI.83121;1	7862	13-MAY-1992	23:48:42.74
ISEEAPWI.83122;1	15725	13-MAY-1992	23:50:13.42
ISEEAPWI.83123;1	21100	13-MAY-1992	23:52:54.24
ISEEAPWI.83124;1	10136	13-MAY-1992	23:55:48.99
ISEEAPWI.83125;1	4990	13-MAY-1992	23:57:14.19
ISEEAPWI.83126;1	3905	13-MAY-1992	23:57:59.68
ISEEAPWI.83127;1	6666	13-MAY-1992	23:58:44.11
ISEEAPWI.83128;1	5662	13-MAY-1992	23:59:46.16
ISEEAPWI.83129;1	8704	14-MAY-1992	00:00:49.23
ISEEAPWI.83130;1	6506	14-MAY-1992	00:02:08.39
ISEEAPWI.83131;1	6425	14-MAY-1992	00:03:09.44
ISEEAPWI.83132;1	8520	14-MAY-1992	00:04:13.80
ISEEAPWI.83133;1	7218	14-MAY-1992	00:05:32.55
ISEEAPWI.83134;1	19522	14-MAY-1992	00:07:09.41
ISEEAPWI.83135;1	14438	14-MAY-1992	00:10:13.06
ISEEAPWI.83136;1	11143	14-MAY-1992	00:12:20.95
ISEEAPWI.83137;1	8770	14-MAY-1992	00:14:06.09
ISEEAPWI.83138;1	5262	14-MAY-1992	00:15:30.85
ISEEAPWI.83139;1	7132	14-MAY-1992	00:16:26.95
ISEEAPWI.83140;1	2854	14-MAY-1992	00:17:26.40
ISEEAPWI.83141;1	6356	14-MAY-1992	00:18:01.19
ISEEAPWI.83142;1	3878	14-MAY-1992	00:18:58.54
ISEEAPWI.83143;1	5366	14-MAY-1992	00:19:39.38
ISEEAPWI.83144;1	6171	14-MAY-1992	00:20:32.32
ISEEAPWI.83145;1	11719	14-MAY-1992	00:21:42.74
ISEEAPWI.83146;1	20443	14-MAY-1992	00:23:54.37
ISEEAPWI.83147;1	20816	14-MAY-1992	00:27:07.92
ISEEAPWI.83148;1	5150	14-MAY-1992	00:29:58.36
ISEEAPWI.83149;1	4796	14-MAY-1992	00:30:46.97
ISEEAPWI.83150;1	6987	14-MAY-1992	00:31:37.41
ISEEAPWI.83151;1	7329	14-MAY-1992	00:32:45.51
ISEEAPWI.83152;1	4791	14-MAY-1992	00:33:52.22
ISEEAPWI.83153;1	5757	14-MAY-1992	00:34:41.05
ISEEAPWI.83154;1	6298	14-MAY-1992	00:35:37.22
ISEEAPWI.83155;1	5418	14-MAY-1992	00:36:37.25
ISEEAPWI.83156;1	5198	14-MAY-1992	00:37:28.70
ISEEAPWI.83157;1	10076	14-MAY-1992	00:38:29.33
ISEEAPWI.83158;1	14835	14-MAY-1992	00:40:13.42
ISEEAPWI.83159;1	18068	14-MAY-1992	00:42:42.74
ISEEAPWI.83160;1	4536	14-MAY-1992	00:45:12.69
ISEEAPWI.83161;1	4205	14-MAY-1992	00:45:56.19
ISEEAPWI.83162;1	7618	14-MAY-1992	00:46:43.72
ISEEAPWI.83163;1	3844	14-MAY-1992	00:47:50.99
ISEEAPWI.83164;1	7725	14-MAY-1992	00:48:36.21
ISEEAPWI.83165;1	5184	14-MAY-1992	00:49:46.17
ISEEAPWI.83166;2	5846	14-MAY-1992	00:50:37.60
ISEEAPWI.83166;1	5846	14-MAY-1992	00:50:37.60
ISEEAPWI.83167;1	6576	14-MAY-1992	00:51:34.72

ISEEAPWI.83168;1	7663	14-MAY-1992	00:52:40.46
ISEEAPWI.83169;1	6050	14-MAY-1992	00:53:50.72
ISEEAPWI.83170;1	10731	14-MAY-1992	00:54:58.67
ISEEAPWI.83171;1	10695	14-MAY-1992	00:56:42.17
ISEEAPWI.83172;1	4115	14-MAY-1992	00:58:11.77
ISEEAPWI.83173;1	5093	14-MAY-1992	00:58:53.90
ISEEAPWI.83174;1	2733	14-MAY-1992	00:59:38.42
ISEEAPWI.83175;1	5043	14-MAY-1992	01:00:11.38
ISEEAPWI.83176;1	7205	14-MAY-1992	01:01:10.67
ISEEAPWI.83177;1	8242	14-MAY-1992	01:02:28.97
ISEEAPWI.83178;1	8085	14-MAY-1992	01:03:54.27
ISEEAPWI.83179;1	6717	14-MAY-1992	01:05:14.71
ISEEAPWI.83180;1	6807	16-MAY-1992	15:18:57.37
ISEEAPWI.83181;1	15359	16-MAY-1992	15:20:21.93
ISEEAPWI.83182;1	20522	16-MAY-1992	15:22:59.45
ISEEAPWI.83183;1	29640	16-MAY-1992	15:26:32.82
ISEEAPWI.83184;1	6446	16-MAY-1992	15:30:27.66
ISEEAPWI.83185;1	7544	16-MAY-1992	15:31:33.17
ISEEAPWI.83186;2	7821	16-MAY-1992	15:32:48.45
ISEEAPWI.83186;1	7821	16-MAY-1992	15:32:48.45
ISEEAPWI.83187;1	8488	16-MAY-1992	15:34:05.90
ISEEAPWI.83188;1	9115	16-MAY-1992	15:35:32.22
ISEEAPWI.83189;1	8070	16-MAY-1992	15:37:01.43
ISEEAPWI.83190;1	8462	16-MAY-1992	15:38:21.73
ISEEAPWI.83191;1	8443	16-MAY-1992	15:39:49.90
ISEEAPWI.83192;1	8818	16-MAY-1992	15:41:16.16
ISEEAPWI.83193;1	16301	16-MAY-1992	15:43:01.96
ISEEAPWI.83194;1	28002	16-MAY-1992	15:46:26.18
ISEEAPWI.83195;1	29202	16-MAY-1992	15:51:00.47
ISEEAPWI.83196;1	8275	16-MAY-1992	15:55:12.90
ISEEAPWI.83197;1	7857	16-MAY-1992	15:56:34.76
ISEEAPWI.83198;1	6664	16-MAY-1992	15:57:52.08
ISEEAPWI.83199;1	8744	16-MAY-1992	15:59:03.17
ISEEAPWI.83200;1	7690	16-MAY-1992	16:00:29.80
ISEEAPWI.83201;1	6164	16-MAY-1992	16:01:43.14
ISEEAPWI.83202;1	6083	16-MAY-1992	16:02:45.22
ISEEAPWI.83203;1	6920	16-MAY-1992	16:03:53.62
ISEEAPWI.83204;1	7077	16-MAY-1992	16:05:04.03
ISEEAPWI.83205;1	20462	16-MAY-1992	16:06:41.41
ISEEAPWI.83206;1	30709	16-MAY-1992	16:10:23.05
ISEEAPWI.83207;1	23257	16-MAY-1992	16:15:20.44
ISEEAPWI.83208;1	7260	16-MAY-1992	16:18:35.71
ISEEAPWI.83209;1	7561	16-MAY-1992	16:19:53.89
ISEEAPWI.83210;1	8328	16-MAY-1992	16:21:13.68
ISEEAPWI.83211;1	8357	16-MAY-1992	16:22:37.45
ISEEAPWI.83212;1	8269	16-MAY-1992	16:24:01.91
ISEEAPWI.83213;1	9273	16-MAY-1992	16:25:27.66
ISEEAPWI.83214;1	7733	16-MAY-1992	16:26:57.14
ISEEAPWI.83215;1	7649	16-MAY-1992	16:28:15.81
ISEEAPWI.83216;1	7465	16-MAY-1992	16:29:33.72
ISEEAPWI.83217;1	17501	16-MAY-1992	16:31:07.76
ISEEAPWI.83218;1	21012	16-MAY-1992	16:34:07.96
ISEEAPWI.83219;1	14270	16-MAY-1992	16:37:20.29
ISEEAPWI.83220;1	8428	16-MAY-1992	16:39:33.67
ISEEAPWI.83221;1	8328	16-MAY-1992	16:40:56.89
ISEEAPWI.83222;1	7039	16-MAY-1992	16:42:18.60
ISEEAPWI.83223;1	8290	16-MAY-1992	16:43:33.72
ISEEAPWI.83224;1	8909	16-MAY-1992	16:44:58.87
ISEEAPWI.83225;1	8962	16-MAY-1992	16:46:30.25
ISEEAPWI.83226;1	8610	16-MAY-1992	16:47:59.54

```
ISEEAPWI.83227;1                    7315  16-MAY-1992 16:49:27.19
ISEEAPWI.83228;1                    6552  16-MAY-1992 16:50:40.16
ISEEAPWI.83229;1                   15445  16-MAY-1992 16:52:02.92
VOLDESC.SFD;1                         59  22-MAY-1992 09:43:57.11

Total of 159 files, 1408072 blocks.

Grand total of 2 directories, 172 files, 1409210 blocks.
```

Directory Listing of KV0000024, Side 2
Label Name = **ISEEAPWI0012**

Directory 1DUB62:[000000]

000000.DIR;1	1	26-MAY-1992	10:16:06.90
BACKUP.SYS;1	0	26-MAY-1992	10:16:06.90
BADBLK.SYS;1	16	26-MAY-1992	10:16:06.90
BADLOG.SYS;1	1	26-MAY-1992	10:16:06.90
BAD_FILES.DIR;1	1	26-MAY-1992	10:16:14.21
BITMAP.SYS;1	32	26-MAY-1992	10:16:06.90
CONFIG.SYS;1	1	26-MAY-1992	10:16:15.06
CONTIN.SYS;1	0	26-MAY-1992	10:16:06.90
CORIMG.SYS;1	0	26-MAY-1992	10:16:06.90
INDEXF.SYS;1	1075	26-MAY-1992	10:16:06.90
ISEEAPWI.DIR;1	10	26-MAY-1992	10:16:13.69
OSECURE.SYS;1	0	26-MAY-1992	10:16:21.32
VOLSET.SYS;1	0	26-MAY-1992	10:16:06.90

Total of 13 files, 1137 blocks.

Directory 1DUB62:[ISEEAPWI]

FORMAT.SFD;1	23	1-MAY-1992	12:04:42.73
ISEEAPWI.83230;1	28943	16-MAY-1992	16:55:03.74
ISEEAPWI.83231;1	22265	16-MAY-1992	16:59:37.15
ISEEAPWI.83232;1	7439	16-MAY-1992	17:02:51.12
ISEEAPWI.83233;1	8180	16-MAY-1992	17:04:10.84
ISEEAPWI.83234;1	8546	16-MAY-1992	17:05:35.28
ISEEAPWI.83235;1	7639	16-MAY-1992	17:07:03.80
ISEEAPWI.83236;1	8874	16-MAY-1992	17:08:25.52
ISEEAPWI.83237;1	8469	16-MAY-1992	17:09:54.66
ISEEAPWI.83238;1	7367	16-MAY-1992	17:11:19.05
ISEEAPWI.83239;1	7446	16-MAY-1992	17:12:27.99
ISEEAPWI.83240;1	8328	16-MAY-1992	17:13:41.53
ISEEAPWI.83241;1	19422	16-MAY-1992	17:15:21.55
ISEEAPWI.83242;1	23991	16-MAY-1992	17:18:36.11
ISEEAPWI.83243;1	16260	16-MAY-1992	17:21:58.16
ISEEAPWI.83244;1	6882	16-MAY-1992	17:24:13.52
ISEEAPWI.83245;1	6573	16-MAY-1992	17:25:16.34
ISEEAPWI.83246;1	7195	16-MAY-1992	17:26:18.75
ISEEAPWI.83247;1	5827	16-MAY-1992	17:27:23.53
ISEEAPWI.83248;1	7061	16-MAY-1992	17:28:20.24
ISEEAPWI.83249;1	7403	16-MAY-1992	17:29:26.09
ISEEAPWI.83250;1	7721	16-MAY-1992	17:30:35.71
ISEEAPWI.83251;1	6372	16-MAY-1992	17:31:43.81
ISEEAPWI.83252;1	8706	16-MAY-1992	17:32:47.35
ISEEAPWI.83253;1	23927	16-MAY-1992	17:34:39.37
ISEEAPWI.83254;1	34162	16-MAY-1992	17:38:43.20
ISEEAPWI.83255;1	18267	16-MAY-1992	17:43:34.64
ISEEAPWI.83256;1	6466	16-MAY-1992	17:46:02.21
ISEEAPWI.83257;1	7465	16-MAY-1992	17:47:04.54
ISEEAPWI.83258;1	7938	16-MAY-1992	17:48:16.72
ISEEAPWI.83259;1	8749	16-MAY-1992	17:49:34.71
ISEEAPWI.83260;1	8938	16-MAY-1992	17:50:56.59
ISEEAPWI.83261;1	9235	16-MAY-1992	17:52:22.63
ISEEAPWI.83262;1	8893	16-MAY-1992	17:53:48.80
ISEEAPWI.83263;1	7087	16-MAY-1992	17:55:08.62
ISEEAPWI.83264;1	8955	16-MAY-1992	17:56:20.03

ISEEAPWI.83265;1	11226	16-MAY-1992	17:57:48.17
ISEEAPWI.83266;1	29016	16-MAY-1992	18:00:08.35
ISEEAPWI.83267;1	16526	16-MAY-1992	18:04:13.69
ISEEAPWI.83268;1	8183	16-MAY-1992	18:06:30.35
ISEEAPWI.83269;1	8223	16-MAY-1992	18:07:48.57
ISEEAPWI.83270;1	7230	16-MAY-1992	18:09:04.73
ISEEAPWI.83271;1	7933	16-MAY-1992	18:10:16.91
ISEEAPWI.83272;1	6533	16-MAY-1992	18:11:29.28
ISEEAPWI.83273;1	9043	16-MAY-1992	18:12:35.34
ISEEAPWI.83274;1	6513	16-MAY-1992	18:13:55.52
ISEEAPWI.83275;1	8620	16-MAY-1992	18:15:04.99
ISEEAPWI.83276;1	9215	16-MAY-1992	18:16:27.02
ISEEAPWI.83277;1	26758	16-MAY-1992	18:18:33.39
ISEEAPWI.83278;1	32227	16-MAY-1992	18:22:58.76
ISEEAPWI.83279;1	20381	16-MAY-1992	18:27:37.18
ISEEAPWI.83280;1	6731	16-MAY-1992	18:30:19.11
ISEEAPWI.83281;1	7931	16-MAY-1992	18:31:26.04
ISEEAPWI.83282;1	9012	16-MAY-1992	18:32:44.80
ISEEAPWI.83283;1	7620	16-MAY-1992	18:34:07.45
ISEEAPWI.83284;1	6791	16-MAY-1992	18:35:19.04
ISEEAPWI.83285;1	9051	16-MAY-1992	18:36:29.69
ISEEAPWI.83286;1	6181	16-MAY-1992	18:37:50.55
ISEEAPWI.83287;1	8285	16-MAY-1992	18:38:53.10
ISEEAPWI.83288;1	7226	16-MAY-1992	18:40:10.14
ISEEAPWI.83289;1	7374	16-MAY-1992	18:41:18.22
ISEEAPWI.83290;1	29934	16-MAY-1992	18:43:12.63
ISEEAPWI.83291;1	15681	16-MAY-1992	18:47:20.44
ISEEAPWI.83292;2	7360	16-MAY-1992	18:49:30.28
ISEEAPWI.83292;1	7360	16-MAY-1992	18:49:30.28
ISEEAPWI.83293;1	8063	16-MAY-1992	18:50:42.48
ISEEAPWI.83294;1	7927	16-MAY-1992	18:51:58.97
ISEEAPWI.83295;1	8661	16-MAY-1992	18:53:18.67
ISEEAPWI.83296;1	8603	16-MAY-1992	18:54:41.52
ISEEAPWI.83297;1	8658	16-MAY-1992	18:56:05.74
ISEEAPWI.83298;1	7195	16-MAY-1992	18:57:24.49
ISEEAPWI.83299;1	8453	16-MAY-1992	18:58:36.04
ISEEAPWI.83300;1	8914	16-MAY-1992	18:59:57.18
ISEEAPWI.83301;1	15309	16-MAY-1992	19:01:34.23
ISEEAPWI.83302;1	37009	16-MAY-1992	19:04:42.04
ISEEAPWI.83303;1	20012	16-MAY-1992	19:09:57.04
ISEEAPWI.83304;1	8084	16-MAY-1992	19:12:40.85
ISEEAPWI.83305;1	7511	16-MAY-1992	19:13:58.31
ISEEAPWI.83306;1	7175	18-MAY-1992	14:50:32.17
ISEEAPWI.83307;1	7563	18-MAY-1992	14:51:46.40
ISEEAPWI.83308;1	7671	18-MAY-1992	14:52:58.85
ISEEAPWI.83309;2	9275	18-MAY-1992	14:54:13.56
ISEEAPWI.83309;1	9275	18-MAY-1992	14:54:13.56
ISEEAPWI.83310;1	7884	18-MAY-1992	14:55:39.16
ISEEAPWI.83311;1	8969	18-MAY-1992	14:56:55.31
ISEEAPWI.83312;1	7853	18-MAY-1992	14:58:18.77
ISEEAPWI.83313;1	13494	18-MAY-1992	14:59:46.54
ISEEAPWI.83314;1	21188	18-MAY-1992	15:02:13.73
ISEEAPWI.83315;1	12449	18-MAY-1992	15:05:21.49
ISEEAPWI.83316;1	6537	18-MAY-1992	15:07:08.94
ISEEAPWI.83317;1	6200	18-MAY-1992	15:08:12.34
ISEEAPWI.83318;1	8732	18-MAY-1992	15:09:20.15
ISEEAPWI.83319;1	8766	18-MAY-1992	15:10:53.30
ISEEAPWI.83320;1	5172	18-MAY-1992	15:12:14.93
ISEEAPWI.83321;1	8981	18-MAY-1992	15:13:14.73
ISEEAPWI.83322;1	7176	18-MAY-1992	15:14:40.31

ISEEAPWI.83323;1	6331	18-MAY-1992	15:15:50.83
ISEEAPWI.83324;1	6817	18-MAY-1992	15:16:54.71
ISEEAPWI.83325;1	17202	18-MAY-1992	15:18:23.49
ISEEAPWI.83326;1	25270	18-MAY-1992	15:21:38.95
ISEEAPWI.83327;1	17460	18-MAY-1992	15:25:40.19
ISEEAPWI.83328;1	7740	18-MAY-1992	15:28:13.98
ISEEAPWI.83329;1	7450	18-MAY-1992	15:29:31.22
ISEEAPWI.83330;1	7395	18-MAY-1992	15:30:44.85
ISEEAPWI.83331;1	8171	18-MAY-1992	15:32:02.23
ISEEAPWI.83332;1	5057	18-MAY-1992	15:33:18.57
ISEEAPWI.83333;1	5057	18-MAY-1992	15:34:10.62
ISEEAPWI.83334;1	3038	18-MAY-1992	15:34:58.72
ISEEAPWI.83335;1	3964	18-MAY-1992	15:35:31.72
ISEEAPWI.83336;1	6351	18-MAY-1992	15:36:17.39
ISEEAPWI.83337;1	6061	18-MAY-1992	15:37:21.43
ISEEAPWI.83338;1	17085	18-MAY-1992	15:38:44.75
ISEEAPWI.83339;1	8771	18-MAY-1992	15:41:20.01
ISEEAPWI.83340;1	3911	18-MAY-1992	15:42:38.11
ISEEAPWI.83341;1	3508	18-MAY-1992	15:43:20.63
ISEEAPWI.83342;1	2606	18-MAY-1992	15:43:54.91
ISEEAPWI.83343;1	8110	18-MAY-1992	15:44:32.87
ISEEAPWI.83344;1	7542	18-MAY-1992	15:45:54.24
ISEEAPWI.83345;1	8759	18-MAY-1992	15:47:10.14
ISEEAPWI.83346;1	7432	18-MAY-1992	15:48:39.62
ISEEAPWI.83347;1	8837	18-MAY-1992	15:50:00.21
ISEEAPWI.83348;1	10313	18-MAY-1992	15:51:33.60
ISEEAPWI.83349;1	25539	18-MAY-1992	15:53:46.75
ISEEAPWI.83350;1	36405	18-MAY-1992	15:58:17.87
ISEEAPWI.83351;1	10748	18-MAY-1992	16:03:32.65
ISEEAPWI.83352;1	8084	18-MAY-1992	16:05:13.66
ISEEAPWI.83353;1	6676	18-MAY-1992	16:06:31.89
ISEEAPWI.83354;1	7893	18-MAY-1992	16:07:40.75
ISEEAPWI.83355;1	8630	18-MAY-1992	16:09:01.84
ISEEAPWI.83356;1	7138	18-MAY-1992	16:10:26.87
ISEEAPWI.83357;1	8479	18-MAY-1992	16:11:43.16
ISEEAPWI.83358;1	4976	18-MAY-1992	16:13:03.32
ISEEAPWI.83359;1	6791	18-MAY-1992	16:13:57.19
VOLDESC.SFD;1	59	26-MAY-1992	10:05:39.92

Total of 134 files, 1411593 blocks.

Grand total of 2 directories, 147 files, 1412730 blocks.

Directory Listing of KV0000025, Side 1
Label Name = **ISEEAPWI0013**

Directory 1DUB62:[000000]

000000.DIR;1	1	27-MAY-1992	14:05:36.11
BACKUP.SYS;1	0	27-MAY-1992	14:05:36.11
BADBLK.SYS;1	16	27-MAY-1992	14:05:36.11
BADLOG.SYS;1	1	27-MAY-1992	14:05:36.11
BAD_FILES.DIR;1	1	27-MAY-1992	14:05:44.28
BITMAP.SYS;1	32	27-MAY-1992	14:05:36.11
CONFIG.SYS;1	1	27-MAY-1992	14:05:45.83
CONTIN.SYS;1	0	27-MAY-1992	14:05:36.11
CORIMG.SYS;1	0	27-MAY-1992	14:05:36.11
INDEXF.SYS;1	1075	27-MAY-1992	14:05:36.11
ISEEAPWI.DIR;1	9	27-MAY-1992	14:05:43.70
OSECURE.SYS;1	0	27-MAY-1992	14:05:54.96
VOLSET.SYS;1	0	27-MAY-1992	14:05:36.11

Total of 13 files, 1136 blocks.

Directory 1DUB62:[ISEEAPWI]

FORMAT.SFD;1	23	1-MAY-1992	12:04:42.73
ISEEAPWI.86001;1	5727	3-APR-1992	10:42:55.29
ISEEAPWI.86002;1	5748	3-APR-1992	10:43:39.45
ISEEAPWI.86003;1	5265	3-APR-1992	10:44:21.43
ISEEAPWI.86004;1	6833	3-APR-1992	10:45:01.14
ISEEAPWI.86005;1	8441	3-APR-1992	10:45:56.08
ISEEAPWI.86006;1	16676	3-APR-1992	10:47:10.67
ISEEAPWI.86007;1	9670	3-APR-1992	10:49:00.03
ISEEAPWI.86008;1	8369	3-APR-1992	10:50:09.40
ISEEAPWI.86009;1	3771	3-APR-1992	10:51:07.37
ISEEAPWI.86010;1	3830	3-APR-1992	10:51:38.11
ISEEAPWI.86011;1	8084	3-APR-1992	10:52:15.27
ISEEAPWI.86012;1	5638	3-APR-1992	10:53:15.48
ISEEAPWI.86013;1	5707	3-APR-1992	10:53:58.62
ISEEAPWI.86014;1	6466	3-APR-1992	10:54:48.80
ISEEAPWI.86015;1	3098	3-APR-1992	10:56:01.61
ISEEAPWI.86016;1	6224	3-APR-1992	10:56:33.09
ISEEAPWI.86017;2	4811	3-APR-1992	10:57:21.97
ISEEAPWI.86017;1	4811	3-APR-1992	10:57:21.97
ISEEAPWI.86018;1	20125	3-APR-1992	10:58:25.87
ISEEAPWI.86019;1	27322	3-APR-1992	11:01:13.72
ISEEAPWI.86020;1	8672	3-APR-1992	11:04:25.27
ISEEAPWI.86021;1	6535	3-APR-1992	11:05:21.77
ISEEAPWI.86022;1	4234	3-APR-1992	11:06:17.76
ISEEAPWI.86023;1	7025	3-APR-1992	11:06:51.83
ISEEAPWI.86024;1	5855	3-APR-1992	11:07:39.21
ISEEAPWI.86025;1	6415	3-APR-1992	11:08:19.70
ISEEAPWI.86026;1	6637	3-APR-1992	11:09:03.77
ISEEAPWI.86027;1	3203	3-APR-1992	11:09:43.15
ISEEAPWI.86028;1	2692	3-APR-1992	11:10:04.33
ISEEAPWI.86029;1	11949	3-APR-1992	11:10:36.95
ISEEAPWI.86030;1	19775	3-APR-1992	11:12:09.52
ISEEAPWI.86031;1	27817	3-APR-1992	11:14:31.46
ISEEAPWI.86032;1	6298	3-APR-1992	11:17:06.93
ISEEAPWI.86033;1	7138	3-APR-1992	11:17:52.23

ISEEAPWI.86034;1	5313	3-APR-1992	11:18:39.12
ISEEAPWI.86035;1	6965	3-APR-1992	11:19:17.59
ISEEAPWI.86036;1	6119	3-APR-1992	11:20:04.95
ISEEAPWI.86037;1	7181	3-APR-1992	11:20:48.68
ISEEAPWI.86038;2	6702	3-APR-1992	11:21:46.42
ISEEAPWI.86038;1	6702	3-APR-1992	11:21:46.42
ISEEAPWI.86039;1	6245	3-APR-1992	11:22:36.63
ISEEAPWI.86040;1	5568	3-APR-1992	11:23:19.23
ISEEAPWI.86041;1	14816	3-APR-1992	11:24:20.96
ISEEAPWI.86042;1	27588	3-APR-1992	11:26:34.55
ISEEAPWI.86043;1	22047	3-APR-1992	11:29:37.58
ISEEAPWI.86044;1	5616	3-APR-1992	11:31:51.18
ISEEAPWI.86045;1	7209	3-APR-1992	11:32:34.58
ISEEAPWI.86046;1	5073	3-APR-1992	11:33:24.06
ISEEAPWI.86047;1	7608	3-APR-1992	11:34:04.90
ISEEAPWI.86048;1	5397	3-APR-1992	11:34:55.32
ISEEAPWI.86049;1	6669	3-APR-1992	11:35:36.28
ISEEAPWI.86050;1	6807	3-APR-1992	11:36:25.41
ISEEAPWI.86051;1	6652	3-APR-1992	11:37:14.56
ISEEAPWI.86052;1	6465	3-APR-1992	11:38:01.96
ISEEAPWI.86053;1	9713	3-APR-1992	11:38:53.93
ISEEAPWI.86054;1	30756	3-APR-1992	11:40:42.28
ISEEAPWI.86055;1	28131	3-APR-1992	11:44:27.40
ISEEAPWI.86056;1	6862	3-APR-1992	11:47:25.28
ISEEAPWI.86057;1	5958	3-APR-1992	11:48:17.32
ISEEAPWI.86058;1	4454	3-APR-1992	11:49:05.70
ISEEAPWI.86059;1	6753	3-APR-1992	11:49:54.68
ISEEAPWI.86060;1	4258	3-APR-1992	11:50:41.83
ISEEAPWI.86061;1	5856	3-APR-1992	11:51:18.25
ISEEAPWI.86062;1	7661	3-APR-1992	11:52:12.85
ISEEAPWI.86063;1	5808	3-APR-1992	11:53:11.12
ISEEAPWI.86064;1	7348	3-APR-1992	11:54:01.21
ISEEAPWI.86065;1	12829	3-APR-1992	11:55:09.49
ISEEAPWI.86066;1	28985	3-APR-1992	11:57:22.41
ISEEAPWI.86067;1	25579	3-APR-1992	12:01:25.74
ISEEAPWI.86068;1	6128	3-APR-1992	12:04:11.48
ISEEAPWI.86069;1	6485	3-APR-1992	12:04:58.42
ISEEAPWI.86070;1	5162	3-APR-1992	12:05:47.66
ISEEAPWI.86071;1	6544	3-APR-1992	12:06:32.11
ISEEAPWI.86072;1	5671	3-APR-1992	12:07:25.16
ISEEAPWI.86073;1	5980	3-APR-1992	12:08:12.23
ISEEAPWI.86074;1	5958	3-APR-1992	12:09:00.87
ISEEAPWI.86075;1	4732	3-APR-1992	12:09:47.78
ISEEAPWI.86076;1	7438	3-APR-1992	12:10:30.11
ISEEAPWI.86077;1	7479	3-APR-1992	12:11:39.61
ISEEAPWI.86078;1	19321	3-APR-1992	12:13:05.09
ISEEAPWI.86079;2	20094	3-APR-1992	12:17:02.10
ISEEAPWI.86079;1	20094	3-APR-1992	12:17:02.10
ISEEAPWI.86080;1	20827	3-APR-1992	12:19:38.56
ISEEAPWI.86081;1	25055	3-APR-1992	12:22:27.00
ISEEAPWI.86082;1	15701	3-APR-1992	12:25:24.41
ISEEAPWI.86083;1	24594	3-APR-1992	12:27:43.34
ISEEAPWI.86084;1	21445	3-APR-1992	12:30:54.90
ISEEAPWI.86085;1	23188	3-APR-1992	12:33:48.67
ISEEAPWI.86086;1	25677	3-APR-1992	12:36:42.57
ISEEAPWI.86087;2	17310	3-APR-1992	12:39:40.39
ISEEAPWI.86087;1	17310	3-APR-1992	12:39:40.39
ISEEAPWI.86088;1	34406	3-APR-1992	12:42:18.31
ISEEAPWI.86089;1	14314	3-APR-1992	12:46:16.91
ISEEAPWI.86090;1	32014	3-APR-1992	12:48:30.27

ISEEAPWI.86091;1	30914	3-APR-1992	12:52:30.73
ISEEAPWI.86092;1	28771	3-APR-1992	12:56:21.88
ISEEAPWI.86093;1	29073	3-APR-1992	13:00:00.80
ISEEAPWI.86094;1	18058	3-APR-1992	13:03:16.91
ISEEAPWI.86095;1	33171	3-APR-1992	13:05:57.56
ISEEAPWI.86096;1	22506	3-APR-1992	13:09:56.63
ISEEAPWI.86097;1	27965	3-APR-1992	13:12:57.93
ISEEAPWI.86098;1	26476	3-APR-1992	13:16:34.21
ISEEAPWI.86099;1	20112	3-APR-1992	13:19:52.45
ISEEAPWI.86100;1	29835	3-APR-1992	13:22:40.46
ISEEAPWI.86101;1	29575	3-APR-1992	13:26:23.08
ISEEAPWI.86102;1	33263	3-APR-1992	13:30:21.08
ISEEAPWI.86103;1	28396	3-APR-1992	13:34:41.54
ISEEAPWI.86104;1	31969	3-APR-1992	13:38:25.36
ISEEAPWI.86105;1	34812	3-APR-1992	13:42:31.94
ISEEAPWI.86106;1	22277	3-APR-1992	13:46:54.43
ISEEAPWI.86107;1	32120	3-APR-1992	13:50:02.64
ISEEAPWI.86108;1	29431	3-APR-1992	13:54:25.21
ISEEAPWI.86109;1	28384	3-APR-1992	13:58:14.95
ISEEAPWI.86110;1	34044	3-APR-1992	14:02:07.68
ISEEAPWI.86111;1	17661	3-APR-1992	14:06:25.09
ISEEAPWI.86112;1	32151	3-APR-1992	14:09:18.04
ISEEAPWI.86113;1	20600	3-APR-1992	14:13:18.99
ISEEAPWI.86114;1	21119	3-APR-1992	14:16:02.77
ISEEAPWI.86115;1	7898	3-APR-1992	14:18:33.34
ISEEAPWI.86116;1	25326	3-APR-1992	14:20:01.78
ISEEAPWI.86117;1	32452	3-APR-1992	14:23:29.99
ISEEAPWI.86118;1	26564	3-APR-1992	14:27:50.21
ISEEAPWI.86119;1	25536	3-APR-1992	14:31:24.79
ISEEAPWI.86120;1	22893	3-APR-1992	14:34:44.38
ISEEAPWI.86121;1	23168	3-APR-1992	14:37:51.15
ISEEAPWI.86122;1	23879	3-APR-1992	14:41:08.20
ISEEAPWI.86123;1	28121	3-APR-1992	14:44:27.20
VOLDESC.SFD;1	59	28-MAY-1992	10:57:05.30

Total of 129 files, 1926083 blocks.

Grand total of 2 directories, 142 files, 1927219 blocks.

Directory Listing of KV0000025, Side 2
Label Name = **ISEEAPWI0014**

Directory 1DUB62:[000000]

000000.DIR;1	1	28-MAY-1992 11:29:46.92
BACKUP.SYS;1	0	28-MAY-1992 11:29:46.92
BADBLK.SYS;1	16	28-MAY-1992 11:29:46.92
BADLOG.SYS;1	1	28-MAY-1992 11:29:46.92
BAD_FILES.DIR;1	1	28-MAY-1992 11:29:54.49
BITMAP.SYS;1	32	28-MAY-1992 11:29:46.92
CONFIG.SYS;1	1	28-MAY-1992 11:29:55.66
CONTIN.SYS;1	0	28-MAY-1992 11:29:46.92
CORIMG.SYS;1	0	28-MAY-1992 11:29:46.92
INDEXF.SYS;1	1075	28-MAY-1992 11:29:46.92
ISEEAPWI.DIR;1	5	28-MAY-1992 11:29:53.91
OSECURE.SYS;1	0	28-MAY-1992 11:30:04.24
VOLSET.SYS;1	0	28-MAY-1992 11:29:46.92

Total of 13 files, 1132 blocks.

Directory 1DUB62:[ISEEAPWI]

FORMAT.SFD;1	23	1-MAY-1992 12:04:42.73
ISEEAPWI.86124;1	27177	3-APR-1992 22:28:45.10
ISEEAPWI.86125;1	25311	3-APR-1992 22:32:04.95
ISEEAPWI.86126;1	32719	3-APR-1992 22:35:19.40
ISEEAPWI.86127;1	28668	3-APR-1992 22:39:16.32
ISEEAPWI.86128;1	29862	3-APR-1992 22:42:55.08
ISEEAPWI.86129;1	30331	3-APR-1992 22:46:40.55
ISEEAPWI.86130;1	27925	3-APR-1992 22:50:24.70
ISEEAPWI.86131;1	35905	3-APR-1992 22:53:57.09
ISEEAPWI.86132;1	23480	3-APR-1992 22:58:12.12
ISEEAPWI.86133;1	35713	3-APR-1992 23:01:31.12
ISEEAPWI.86134;1	30933	3-APR-1992 23:05:47.74
ISEEAPWI.86135;1	24472	3-APR-1992 23:09:41.23
ISEEAPWI.86136;2	33258	3-APR-1992 23:12:55.91
ISEEAPWI.86136;1	33258	3-APR-1992 23:12:55.91
ISEEAPWI.86137;1	24747	3-APR-1992 23:16:44.41
ISEEAPWI.86138;1	35965	3-APR-1992 23:19:58.12
ISEEAPWI.86139;1	27961	3-APR-1992 23:23:52.74
ISEEAPWI.86140;1	35764	3-APR-1992 23:27:23.62
ISEEAPWI.86141;1	30960	3-APR-1992 23:31:19.69
ISEEAPWI.86142;1	30904	3-APR-1992 23:34:51.04
ISEEAPWI.86143;1	34327	3-APR-1992 23:38:21.94
ISEEAPWI.86144;1	27136	3-APR-1992 23:42:07.06
ISEEAPWI.86145;1	32359	3-APR-1992 23:45:23.64
ISEEAPWI.86146;1	29083	3-APR-1992 23:49:00.20
ISEEAPWI.86147;2	32560	3-APR-1992 23:52:22.39
ISEEAPWI.86147;1	32560	3-APR-1992 23:52:22.39
ISEEAPWI.86148;1	33506	3-APR-1992 23:56:11.17
ISEEAPWI.86149;1	26727	4-APR-1992 00:00:04.75
ISEEAPWI.86150;1	35182	4-APR-1992 00:03:23.49
ISEEAPWI.86151;1	30412	4-APR-1992 00:07:23.84
ISEEAPWI.86152;1	34174	4-APR-1992 00:11:09.27
ISEEAPWI.86153;2	31163	4-APR-1992 00:15:10.83
ISEEAPWI.86153;1	31163	4-APR-1992 00:15:10.83

ISEEAPWI.86154;1	32626	4-APR-1992	00:18:58.06
ISEEAPWI.86155;1	33992	4-APR-1992	00:22:51.98
ISEEAPWI.86156;1	28704	4-APR-1992	00:26:43.30
ISEEAPWI.86157;1	34540	4-APR-1992	00:30:19.39
ISEEAPWI.86158;1	28508	4-APR-1992	00:34:21.93
ISEEAPWI.86159;1	32466	4-APR-1992	00:37:50.37
ISEEAPWI.86160;1	32509	4-APR-1992	00:41:46.61
ISEEAPWI.86161;1	27030	4-APR-1992	00:45:31.90
ISEEAPWI.86162;1	35830	4-APR-1992	00:48:59.49
ISEEAPWI.86163;1	24115	4-APR-1992	00:53:01.37
ISEEAPWI.86164;1	29965	4-APR-1992	00:56:08.64
ISEEAPWI.86165;1	31007	4-APR-1992	00:59:52.60
ISEEAPWI.86166;1	22801	4-APR-1992	01:03:31.57
ISEEAPWI.86167;1	36108	4-APR-1992	01:06:38.81
ISEEAPWI.86168;1	15887	4-APR-1992	01:10:31.39
ISEEAPWI.86169;1	7355	4-APR-1992	01:12:17.53
ISEEAPWI.86170;1	6334	4-APR-1992	01:13:11.93
ISEEAPWI.86171;1	8024	4-APR-1992	01:14:02.49
ISEEAPWI.86172;1	7465	4-APR-1992	01:15:02.43
ISEEAPWI.86173;1	21987	4-APR-1992	01:16:21.41
ISEEAPWI.86174;1	30276	4-APR-1992	01:19:21.48
ISEEAPWI.86175;1	16681	4-APR-1992	01:22:46.19
ISEEAPWI.86176;1	5954	4-APR-1992	01:24:30.42
ISEEAPWI.86177;1	4889	4-APR-1992	01:25:14.20
ISEEAPWI.86178;1	6375	4-APR-1992	01:25:52.80
ISEEAPWI.86179;1	6664	4-APR-1992	01:26:40.94
ISEEAPWI.86180;1	6301	4-APR-1992	01:27:30.64
ISEEAPWI.86181;1	7348	4-APR-1992	01:28:20.33
ISEEAPWI.86182;1	7907	4-APR-1992	01:29:16.79
ISEEAPWI.86183;1	6518	4-APR-1992	01:30:16.39
ISEEAPWI.86184;1	7267	4-APR-1992	01:31:06.36
ISEEAPWI.86185;1	28748	4-APR-1992	01:32:33.21
ISEEAPWI.86186;1	27069	4-APR-1992	01:36:01.75
ISEEAPWI.86187;1	18307	4-APR-1992	01:39:06.47
ISEEAPWI.86188;1	6869	4-APR-1992	01:41:00.68
ISEEAPWI.86189;1	7267	4-APR-1992	01:41:50.90
ISEEAPWI.86190;1	6795	4-APR-1992	01:42:43.14
ISEEAPWI.86191;1	7205	4-APR-1992	01:43:33.09
ISEEAPWI.86192;1	7077	4-APR-1992	01:44:24.32
ISEEAPWI.86193;1	6310	4-APR-1992	01:45:17.15
ISEEAPWI.86194;1	7505	4-APR-1992	01:46:09.33
ISEEAPWI.86195;1	8818	4-APR-1992	01:47:08.43
ISEEAPWI.86196;1	7939	4-APR-1992	01:48:16.08
VOLDESC.SFD;1	59	29-MAY-1992	09:21:03.11

Total of 78 files, 1759089 blocks.

Grand total of 2 directories, 91 files, 1760221 blocks.

77-102A-01K

Ralph, here is the dataset information for the optical disks (7 platters, volume numbers ISEEAPWI001-ISEEAPWI0014) recently received from Roger Anderson (U. of Iowa) containing the ISEE-1 Plasma Wave data.

This dataset needs calibration data also which is going to be provided separately on one 9-track magnetic tape, and will be archived as a separate data set.

Sumant

==========

Spacecraft: ISEE-1
Experiment ID: 77-102A-07
Experiment name: Plasma Waves
PI: D.A. Gurnett, University of Iowa.

New data set.

Dataset Short name:

1-S DECOM DATA (NEEDS CALIB DATA)
12345678901234567890123456789012 3

Long name:

1-SEC PWE DECOM DATA (OUTPUTS OF ELEC.
1234567890123456789012345678901234567890 1

AND MAG. SPECT. ANAL.) NEEDS CALIB. DATA
12345678901234567890123456789012345678901 2

Seven 12" WORM Optimem optical disks; VAX binary data

Time Span of Data: October 22, 1977 - December 31, 1980
October 15, 1982 - December 25, 1983
January 01, 1986 - July 15, 1986

Data Set Contact: ANDERSON

Dr. Roger R. Anderson
Department of Physics and Astronomy
University of Iowa
Iowa City, IA 52242
Phone: 319-335-1924
IOWAVE::ANDERSON

NASA HQ Program areas: 5C

Type of dataset: 1

Data Set Materials for Distribution:

Listing of volume labels and time coverage;
Printout of sample Volume Descriptor file (VOLDESC.SFD);
Printout of sample Format file (FORMAT.SFD).

Total of 17 pages.

Remarks:

These data contain raw numbers measured by the sensors. The calibration files necessary to convert these raw numbers to geophysical quantities are contained in the PWE_CALIB_DATA tape which will be provided separately and archived as a separate data set.

==========

Thanks.

Sumant

ISEE-1 GURNETT PLASMA WAVE DECOM DATA OPTICAL DISKS

There are seven 12" Optimem WORM optical disks in this data set. The three periods covered are from launch (1977 day 295) through 1980 (1980 day 366), from 1982 day 288 to 1983 day 359, and 1986 days 001 through 196.

Each disk contains VOLDESC.SFD and FORMAT.SFD files along with the data files. Below is a copy of the file used to generate the platter labels. The filenames should make the data source and time coverage obvious: each filename consists of "iseeapwi" + "year and day of year", and the file type is ".arc", for "archive". Following the label list are sample voldesc.sfd and format.sfd files.

VOLUME LABEL ISEEAPWI0001
SIDE ONE OF SERIAL NUMBER 038026
DATE OINIT 10 - 11 - 1991
DATE OCLOSED 05 - 01 - 1992
ISEE-1 GURNETT DECOM DATA
110 (24-HOUR) DATA FILES,
ISEEAPWI77295.ARC THROUGH
ISEEAPWI78039.ARC INCLUSIVE

VOLUME LABEL ISEEAPWI0002
SIDE TWO OF SERIAL NUMBER 038026
DATE OINIT 11 - 06 - 1991
DATE OCLOSED 05 - 01 - 1992
ISEE-1 GURNETT DECOM DATA
137 (24-HOUR) DATA FILES,
ISEEAPWI78040.ARC THROUGH
ISEEAPWI78176.ARC INCLUSIVE

VOLUME LABEL ISEEAPWI0003
SIDE ONE OF SERIAL NUMBER 038027
DATE OINIT 05 - 13 - 1992
DATE OCLOSED 05 - 13 - 1992
ISEE-1 GURNETT DECOM DATA
144 (24-HOUR) DATA FILES,
ISEEAPWI78177.ARC THROUGH
ISEEAPWI78320.ARC INCLUSIVE

VOLUME LABEL ISEEAPWI0004
SIDE TWO OF SERIAL NUMBER 038027
DATE OINIT 05 - 13 - 1992
DATE OCLOSED 05 - 13 - 1992
ISEE-1 GURNETT DECOM DATA
145 (24-HOUR) DATA FILES,
ISEEAPWI78321.ARC THROUGH
ISEEAPWI79100.ARC INCLUSIVE

VOLUME LABEL ISEEAPWI0005
SIDE ONE OF SERIAL NUMBER 038028

DATE OINIT 05 - 15 - 1992
DATE OCLOSED 05 - 18 - 1992
ISEE-1 GURNETT DECOM DATA
141 (24-HOUR) DATA FILES,
ISEEAPWI79101.ARC THROUGH
ISEEAPWI79241.ARC INCLUSIVE

VOLUME LABEL ISEEAPWI0006
SIDE TWO OF SERIAL NUMBER 038028
DATE OINIT 05 - 15 - 1992
DATE OCLOSED 05 - 18 - 1992
ISEE-1 GURNETT DECOM DATA
146 (24-HOUR) DATA FILES,
ISEEAPWI79242.ARC THROUGH
ISEEAPWI80022.ARC INCLUSIVE

VOLUME LABEL ISEEAPWI0007
SIDE ONE OF SERIAL NUMBER 038029
DATE OINIT 05 - 18 - 1992
DATE OCLOSED 05 - 19 - 1992
ISEE-1 GURNETT DECOM DATA
141 (24-HOUR) DATA FILES,
ISEEAPWI80023.ARC THROUGH
ISEEAPWI80163.ARC INCLUSIVE

VOLUME LABEL ISEEAPWI0008
SIDE TWO OF SERIAL NUMBER 038029
DATE OINIT 05 - 19 - 1992
DATE OCLOSED 05 - 19 - 1992
ISEE-1 GURNETT DECOM DATA
147 (24-HOUR) DATA FILES,
ISEEAPWI80164.ARC THROUGH
ISEEAPWI80310.ARC INCLUSIVE

VOLUME LABEL ISEEAPWI0009
SIDE ONE OF SERIAL NUMBER 038030
DATE OINIT 05 - 19 - 1992
DATE OCLOSED 05 - 21 - 1992
ISEE-1 GURNETT DECOM DATA
056 (24-HOUR) DATA FILES,
ISEEAPWI80311.ARC THROUGH
ISEEAPWI80366.ARC INCLUSIVE

VOLUME LABEL ISEEAPWI0010
SIDE TWO OF SERIAL NUMBER 038030
DATE OINIT 05 - 21 - 1992
DATE OCLOSED 05 - 22 - 1992
ISEE-1 GURNETT DECOM DATA
152 (24-HOUR) DATA FILES,
ISEEAPWI82288.ARC THROUGH
ISEEAPWI83074.ARC INCLUSIVE

VOLUME LABEL ISEEAPWI0011
SIDE ONE OF SERIAL NUMBER 038031
DATE OINIT 05 - 22 - 1992
DATE OCLOSED 05 - 26 - 1992
ISEE-1 GURNETT DECOM DATA
155 (24-HOUR) DATA FILES,
ISEEAPWI83075.ARC THROUGH
ISEEAPWI83229.ARC INCLUSIVE

VOLUME LABEL ISEEAPWI0012
SIDE TWO OF SERIAL NUMBER 038031
DATE OINIT 05 - 26 - 1992
DATE OCLOSED 05 - 27 - 1992
ISEE-1 GURNETT DECOM DATA
130 (24-HOUR) DATA FILES,
ISEEAPWI83230.ARC THROUGH
ISEEAPWI83359.ARC INCLUSIVE

VOLUME LABEL ISEEAPWI0013
SIDE ONE OF SERIAL NUMBER 038032
DATE OINIT 05 - 27 - 1992
DATE OCLOSED 05 - 28 - 1992
ISEE-1 GURNETT DECOM DATA
123 (24-HOUR) DATA FILES,
ISEEAPWI86001.ARC THROUGH
ISEEAPWI86123.ARC INCLUSIVE

VOLUME LABEL ISEEAPWI0014
SIDE TWO OF SERIAL NUMBER 038032
DATE OINIT 05 - 28 - 1992
DATE OCLOSED 05 - 29 - 1992
ISEE-1 GURNETT DECOM DATA
073 (24-HOUR) DATA FILES,
ISEEAPWI86124.ARC THROUGH
ISEEAPWI86196.ARC INCLUSIVE

==========

ISEE-1 GURNETT PLASMA WAVE DECOM DATA OPTICAL DISKS

Sample of VOLDESC.SFD file
(Volume description)

CCSD3ZF0000100000001CCSD3VS00002markeraa

LOG_VOL_IDENT: USA_NASA_NSSD_IC1G_0007A
LOG_VOL_NSSDC_EXPT_ID: 77-102A-07
LOG_VOL_INITIATION_DATE: 1992-05-27
LOG_VOL_CLOSING_DATE: 1992-05-28
LOG_VOL_CAPACITY: 1GB/LOGICAL_VOL
LOG_VOL_FILE_STRUCTURE: FILES-11
VOLUME_DIAMETER: 12 INCHES
VOLUME_DRIVE_MFGR_AND_MODEL: OPTIMEM 1000
COMPUTER_MFGR: DIGITAL EQUIPMENT CORPORATION
OPERATING_SYSTEM: VMS 5.4
COMPUTER_SYSTEM: VAX CLUSTER
TRANSFER_SOFTWARE: SOAR 4.2
TECHNICAL_CONTACT: DR. ROGER R. ANDERSON, THE UNIVERSITY OF IOWA, DEPARTMENT OF PHYSICS AND ASTRONOMY, IOWA CITY, IA 52242, (319)335-1924, IOWAVE::ANDERSON
PREV_LOG_VOLS: USA_NASA_NSSD_IC1G_0001A - USA_NASA_NSSD_IC1G_0006B

CCSD$$MARKERmarkeraaCCSD3SS00002markerab

DATA_SET_NAME: ISEE 1 PLASMA WAVE EXPERIMENT DIGITAL DATA (IC1PWEDD)
DATA_SOURCES: INTERNATIONAL SUN EARTH EXPLORER 1 (ISEE 1) PLASMA WAVE EXPERIMENT
SCIENTIFIC_CONTACT:PRINCIPAL INVESTIGATOR:PROFESSOR DONALD A. GURNETT, THE UNIVERSITY OF IOWA, DEPARTMENT OF PHYSICS AND ASTRONOMY, IOWA CITY, IA 52242, (319)335-1967, IOWAVE::GURNETT;
CO-INVESTIGATOR:DR. ROGER R. ANDERSON,THE UNIVERSITY OF IOWA, DEPARTMENT OF PHYSICS AND ASTRONOMY, IOWA CITY, IA 52242, (319)335-1924, IOWAVE::ANDERSON

SOURCE_CHARACTERISTICS:

A. DESCRIPTION_OF_SPACECRAFT:
The International Sun-Earth Explorer (ISEE) Program consisted of three satellites intended to study the Earth's magnetosphere and the solar wind. ISEE 1 and ISEE 2 were launched on October 22, 1977 into highly elliptical geocentric orbits. The satellites passed through the magnetosphere and into the magnetosheath during each orbit. ISEE 3 was launched on August 12, 1978 and subsequently inserted into a "halo orbit" about the the libration point situated about 240 earth radii (Re) upstream between the earth and the sun. Plasma passing this point arrives at the earth about one hour later where it may cause changes that can be observed by ISEE 1 and ISEE 2. These two spacecraft, separated by a variable distance and with similar instrument complements, were intended to resolve the space-time ambiguity associated with measurements by a single spacecraft on thin boundaries which may be in motion such as the bow shock and the magnetopause. ISEE 1 and ISEE 3 were the principal U. S. contributions to the International Magnetospheric Study. ISEE 2

was built and managed by the European Space Agency. In September 1982 ISEE 3 was diverted from its "halo orbit" to explore the earth's deep tail region through much of 1983 on its way to an encounter with the comet Giacobini Zinner in September 1985. ISEE 1 had a complement of thirteeen experiments to measure the waves, fields, plasma, and particles. The University of Iowa Plasma Wave Experiment was one of these thirteen. For further information on the ISEE project see the following references: Ogilvie, K. W., T. von Rosenvinge, and A. C. Durney, "International sun-earth explorer, A three spacecraft program," Science vcl. 198, no. 131, 1977; and Ogilvie, K. W., A. Durney, and T. von Rosenvinge, "Descriptions of experimental investigations and instruments for the ISEE spacecraft," IEEE Transactions on Geoscience Electronics, Vol. GE-16, No. 3, pp 151-153, July 1978.

B. ORBIT_INFORMATION:
The ISEE 1 satellite was launched on October 22, 1977 into an orbit with an apogee of 23.2 earth radii, an inclination of 28.8 degrees, and a period of 57 hours. The satellite spun about an axis perpendicular to the ecliptic plane at about 19.7 revolutions per minute. Re-entry occurred on September 26, 1987.

C.PERFORMANCE:
This experiment showed no anomalies in its operation throughout the lifetime of the spacecraft. Interference glitches from four sources were occasionally observed and flags to identify the possible presence of these glitches are included in the archived data. The data from the search coil magnetometers has possible interference when the internal Z-measurement calibration operates and when the WIM (Williams, Medium Energy Particle Instrument) scan platform passes through certain positions. The data from the electric field sensors has possible interference when HAM (Harvey, Electron Density Experiment) applies signals to the antennas and when MOM (Mozer, Quasi-static Electric Field Experiment) performs bias sweeps.

INVESTIGATION_OBJECTIVES
The primary science objectives of the ISEE 1 and ISEE 2 plasma wave investigations were: (1) to resolve spatial and temporal variations for a wide variety of magnetospheric and solar wind plasma wave phenomena; (2) to provide basic information on wave-particle interactions in the earth's magnetosphere and in the solar wind; and (3) to perform a variety of long baseline interferometry experiments on both terrestrial and extraterrestrial radio sources at selected frequencies up to 2 MHz.

INSTRUMENT_ATTRIBUTES

A. DESCRIPTION_OF_INSTRUMENT

The ISEE 1 Plasma Wave Instrument uses three electric dipole antennas with lengths of 215, 73.5, and 0.61 meters for electric-field measurements, and triaxial search coil magnetometers for magnetic-field measurements. The ISEE 1 Plasma Wave Experiment includes five receivers: (1) an Electric Spectrum Analyzer (ESA); (2) a Magnetic Spectrum Analyzer (MSA); (3) a Sweep Frequency Receiver (SFR); (4) a Wave Normal Analyzer; and (5) a Wideband Receiver.

All of the electric antennas are in the spin plane of the spacecraft.

The EX (also designated EV) antenna is a thin wire electric dipole antenna with a tip-to-tip length of 215 meters which is shared with the Heppner DC Electric Field Experiment. The preamplifiers for this antenna are mounted inside the spacecraft at the base of each antenna element. The effective antenna length for AC signals for the EX antenna is assumed to be one half its total length and thus 107.5 meters. The EY (also designated EU) antenna consists of two 8-cm diameter spheres mounted on the ends of multiconductor cable which provides power and signal returns for high-impedance preamplifiers located inside of each sphere. The effective antenna length of the EY antenna is the sphere-to-sphere separation distance of 73.5 meters. The EY antenna was provided by and is shared with the Mozer Quasi-static Electric Field Experiment. The ES antenna is a short two-sphere electric antenna with a sphere-to-sphere separation of 0.61 meter which is mounted out about three meters from the spacecraft on the triaxial search coil magnetometers boom.

The triaxial Search Coil Magnetometers (BX, BY, and BZ) are mounted about 3.25 meters from the spacecraft on the same boom as the short electric (ES) antenna. The BZ axis is along the spacecraft spin axis. The BX axis is parallel to the EX axis and the BY axis is parallel to the EY axis. Each search coil magnetometer has a high permeability mu-metal core 16 inches long wound with 10,000 turns of fine wire and a preamplifier to provide signals to the main electronics package in the spacecraft. The coil sensitivity constant is 35 microvolts per nT Hz and the upper cutoff frequency is 10 kHz.

High time resolution measurements are obtained from the two coarse resolution spectrum analyzers. The Electric Spectrum Analyzer consists of a 20-channel analyzer covering the frequency range from 5.6 Hz to 311 kHz and the Magnetic Spectrum Analyzer consists of a 14-channel analyzer covering the frequency range from 5.6 Hz to 10 kHz. These analyzers have relatively coarse frequency resolution, with four frequency channels per decade (at 5.6 Hz, 10.0 Hz, 17.8 Hz, and 31.1 Hz and multiples of ten up to their respective maximum frequencies) and bandwidths of +- 15 % of their center frequencies up to 10 kHz, and +- 7.5 % of their center frequencies for 10 kHz and above. All channels are sampled simultaneously so that electric-to-magnetic-field ratios can be accurately determined. The outputs from the spectrum analyzers are voltages proportional to the logarithm of the field strength with a dynamic range of 110 dB. The analyzer outputs are converted to an 8-bit binary number for transmission by the spacecraft data system. By command the Electric Spectrum Analyzer can be connected to either the EX, the EY, the ES, or the BZ antenna. By command, the Magnetic Spectrum Analyzer can be connected to the BX, the BY, the BZ, or the EX antenna. The command selection for the Sweep Frequency Receiver and the Wideband Receiver were the same as for the Electric Spectrum Analyzer.

The narrow-band Sweep Frequency Receiver provides very high-resolution frequency spectra at relatively low time resolution. The Sweep Frequency Receiver has 32 frequency steps in each of four bands covering the frequency range from 100 Hz to 400 kHz. The frequency steps are logarithmically spaced with a frequency resolution (delta f/f) of about 6.5 %. The time for a complete sweep is 32 seconds. The output of the receiver is a voltage proportional to the logarithm of the signal strength. The dynamic range of the receiver is 100 dB in the lowest three frequency bands (100 Hz to 830 Hz, 830 Hz to 6.7 kHz, and 6.7 kHz to 50 kHz) and 80 dB in the highest frequency band (50 kHz to 400 kHz).

The Wave Normal Analyzer provides detailed phase and amplitude measurements between the various electric-field and magnetic field

components for purposes of computing the wave normal direction and Poynting flux. The Wave Normal Analyzer consists of five narrow-band frequency conversion receivers all tuned to the same frequency. These receivers are connected to the EX, EY, BX, BY, and BZ antennas. The relative phase of the signals in all five receivers is preserved by using the same frequency conversion signal to each receiver. Each receiver produces two outputs which correspond to the cosine and sine components (or real and imaginary parts) of the signal being detected by that channel. The sine output is obtained by shifting the phase of the frequency conversion signal by 90 degrees, relative to the frequency conversion signal for the cosine output. The ten sine and cosine outputs are all sampled simultaneously and held for transmission by sample-and-hold circuits. The bandwidth of the wave normal analyzer is 10 Hz and the center frequency can be tuned to any one of 32 frequencies from 100 Hz to 5 kHz, or can be commanded to step through all 32 frequencies at a rate of one step every 32 seconds. The receivers have a digital automatic gain control which maintains the output amplitudes within the proper dynamic range. The automatic gain control has 16 discrete gain steps and is updated once every second. Because the data from the Wave Normal Analyzer require much auxiliary information in order to properly analyze and interpet them which would dramatically increase the storage required to archive them, it has been decided not to include them in this archiving effort.

The Wide Band Receiver conditions electric and magnetic field waveforms for transmission to the ground via the special purpose transmitter. Because of the large dynamic range of the received signals and the low signal-to-noise ratio of the analog telemetry link, an automatic gain control is used to maintain a nearly constant signal amplitude into the wide-band transmitter, independent of the amplitude of the received signals. Because of the automatic gain control, only relative amplitudes can be determined from the wide band data acquired on the ground. Although absolute amplitudes cannot be determined, these measurements still provide extremely high time resolution, since waveforms with bandwidths of up to 40 kHz can be transmitted to the ground for detailed analysis. The wide band receiver has two basic frequency channels. one from 10 Hz to 1 kHz which is transmitted as an FM subcarrier, and another from 650 Hz to 10 kHz (or 40 kHz) which directly modulates the wide-band transmitter. The choice of 10 kHz or 40 kHz is determined by command. In addition to the bandwidth selection, the frequency range of the wide-band receiver can also be shifted by a frequency conversion scheme to any one of eight frequency ranges from baseband (no frequency conversion) up to 2 MHz. The low frequency limits of these bands are 0 kHz, 31.25 kHz, 62.5 kHz, 125 kHz, 250 kHz, 500 kHz, 1 MHz, and 2 MHz. Although the wideband data received at the ground are analog and have not been converted to digital for archiving, the Wideband DC Compressor voltage and the Automatic Gain Control voltages which appear in the telemetry and which indicate the intensity of the wideband signals (in the two basic frequency channels, respectively) are included in the archive. Information on the mode (10 kHz or 40 kHz) and the range (the frequency band of the upper channel) are also included in the archive.

For further information see the following references:

Gurnett, D. A., F. L. Scarf, R. W. Fredricks, and E. J. Smith, "The ISEE-1 and ISEE-2 Plasma Wave Investigation, "IEEE Transactions on Geoscience Electronics, Vol. GE-16, No. 3, pp 225-230, July 1978.
Gurnett, D. A., R. R. Anderson, F. L. Scarf, R. W. Fredricks, and E. J. Smith, "Initial Results from the ISEE-1 and -2 Plasma Wave Investigation," Space Science Reviews, 23, pp 103-122, 1979.

B. OPERATIONAL MODE:
The sampling rate for each of the coarse spectrum analyzers is one spectrum per second in the low data rate and four spectra per second in the high data rate. Additionally, a Rapid Sample output provides 8-times higher sampling sequentially (at 16 second intervals) for the top 16 channels of the Electric Spectrum Analyzer. For 16 seconds the 56.2 Hz channel is sampled 8 or 32 times per second. Then the 100 Hz channel is sampled at 8 or 32 times per second. For the majority of the time, the Electric Spectrum Analyzer was connected to the EX antenna and the Magnetic Spectrum Analyzer was connected to the BX antenna. In the first few years of operation of ISEE, approximately every fourth orbit the Electric Spectrum Analyzer was connected to the BZ antenna and the Magnetic Spectrum Analyzer was connected to the EX antenna. The purpose for this was to be able to collect wideband data from the search coil magnetometer.

The basic data grouping for archiving is 64 minor frames. Each minor frame contains 128 words of data and each word is 8 bits long. The ISEE 1 low bit rate is 4096 bits/second and the ISEE 1 high bit rate is 16384 bits/second. One minor frame is 1/4 second on low bit rate and 1/16 second in high bit rate. A complete spectrum from each of the coarse spectrum analyzers (20 + 14 = 34 samples) is obtained every 4 minor frames. The Rapid Sample output is sampled twice per minor frame. The Electric Spectrum Analyzer channel that is connected to the Rapid Sample is advanced every 16 seconds. One sample is collected from each of the four Sweep Frequency Receiver bands every four minor frames. The frequency steps for the Sweep Frequency Receiver bands are advanced once per second. In the low bit rate the frequency step of each SFR band is sampled once and in the high bit rate the frequency step of each band is sampled four times.

C. MEASURED PARAMETERS
The measured parameters from the ISEE 1 Plasma Wave Experiment are the voltages output by the sensors in known bandwidths. Electric and/or magnetic field strengths and spectral densities can be calculated from these voltages. The archived data contains the raw data numbers measured for the respective receivers. The files necessary to convert these raw data numbers to whatever geophysical units are desired by the user (such as Volts RMS, V/m, V**2/m**2/Hz, nT, etc.) are contained in the ISEE_1_PWE_CAL_DATA tape archived at the National Space Science Data Center. To obtain the voltages for the respective receivers one uses the lookup table for each of the respective receivers' logarithmic compressors. The twenty lookup tables for the ESA are contained in the ESACAL.FOR file as 256-element arrays labeled CH1, CH2, ... CH20. CH1 is used for ESA Channel 00 (5.6 Hz); CH2 is used for ESA Channel 01 (10 Hz); ... and CH20 is used for ESA Channel 19 (311 kHz). Since the raw voltage data numbers run from 0 to 255, 1 must be added to the data number to find the correct value in the lookup tables. The correct calibrated voltage value for a data number of 100 in the 5.6 Hz ESA data would thus be found in array element CH1(101). The appropriate lookup table for the RAPID SAMPLE data is determined by the RAPID SAMPLE channel number in the archived data which equals the corresponding ESA Channel number. The sixteen possible RAPID SAMPLE Channel numbers run from 4 to 19. Thus one would use the CH5 array in ESACAL.FOR to determine the appropriate signal levels when the RAPID SAMPLE Channel number was 4 (corresponding to the 56.2 Hz Channel). The fourteen lookup tables for the MSA data are contained in the MSACAL.FOR file. To obtain the measured input signal for a given sensor one then uses a lookup table

for the gain factors for each of the respective sensors that can be connected to the given receiver. For the ESA, this information is contained in the ESA_ANT_GAIN.DOC file in the ISEE_1_PWE_CAL_DATA tape. For the MSA, the information are in the MSA_ANT_GAIN.DOC file. The ESA_ANT_GAIN.DOC file has four columns of gain factors (one each for EX, EY, ES, and BZ) and one column showing the effective noise bandwidth for the given channel. The file contains twenty rows (one for each of the 20 channels). The results after the multiplication by the gain factors are in Volts RMS for the electric antennas and in nT (gamma) for the BZ antenna. The MSA_ANT_GAIN.DOC file has four columns of gain factors (one each for EX, BX, BY, and BZ) and one column showing the effective noise bandwidth for the given channel. The file contains fourteen rows (one for each of the 14 channels). The results after the multiplication by the gain factors are in Volts RMS for the electric antenna and in nT (gamma) for the magnetic antennas. From this point on the user has sufficient information to convert to whatever geophysical units they desire to use. For example, if they want electric field (V/m) they need to divide the Voltage obtained by the effective length of the antenna being used. If they desire spectral density, they must square the result and divide by the effective noise bandwidth. The magnetic field spectral density is calculated by dividing the magnetic field strength by the square root of the effective noise bandwidth for the respective receiver channel.

The calibration tables for the Sweep Frequency Receiver (SFR) are contained in the file ISEE1_SFRCAL.FOR file and the 128 frequency steps (there are four bands and 32 steps per band) are listed in the SFR_FREQUENCY.DOC file on the ISEE_1_PWE_CAL_DATA tape. ISEE1_SFRCAL.FOR contains eight REAL arrays. The first four arrays have 32 rows and 4 columns each and contain the relative gain factors for the four sensors (EX, EY, ES, and BZ) between the 32 steps in each band. Array A is for SFR1 (50 kHz to 400 kHz). Array B is for SFR2 (6.4 kHz to 50 kHz). Array C is for SFR3 (800 Hz to 6.4 kHz). Array D is for SFR4 (100 Hz to 800 Hz). The last four arrays have 256 elements each. They contain the logarithm to the base 10 of the Voltage corresponding to the data number for each of the four SFR bands. Array S is for SFR1 (50 kHz to 400 kHz). Array T is for SFR2 (6.4 kHz to 50 kHz). Array U is for SFR3 (800 Hz to 6.4 kHz). Array V is for SFR4 (100 Hz to 800 Hz). Since the array elements go from 1 to 256 while the data numbers go from 0 to 255, 1 must be added to the data number to find the correct value. In the archived data, the SFR step numbers (SFRSTP) go from 0 to 31. Thus to determine the proper gain, one must add 1 to the SFRSTP value to find the correct gain factor. If the ESA (and thus also the SFR) was connected to the EX antenna and one wanted the voltage corresponding to data number 101 for SFRSTP=9 (step 10) of SFR1, you would multiply A(1,10) times 10.0**S(102). If one wanted the voltage corresponding to data number 150 for SFRSTP=19 (step 20) of SFR2, you would multiply B(1,20) times 10.0**T(151). If the ESA was connected to the BZ antenna and one wanted the magnetic field strength corresponding to data number 101 for SFRSTP=9 (step 10) of SFR1, you would multiply A(4,10) times 10.0**S(102). For the electric antennas the results are in RMS Volts and for the BZ antenna the results are in nT. To determine the electric field strength measured by the SFR when connected to one of the electric antennas, one divides the measured voltage by the effective antenna length. To determine the spectral density, the electric field strength result is squared and divided by the effective noise bandwidth. The magnetic field spectral density is calculated by dividing the magnetic field strength by the square root of the

effective noise bandwidth for the appropriate SFR band. The effective noise bandwidths are 1792 Hz for SFR1, 224 Hz for SFR2, 28 Hz for SFR3, and 3.5 Hz for SFR4. In the data files, the first SFR byte is for SFR1, the second is for SFR2, the third is for SFR3, and the fourth is for SFR4.

The SFR was normally operated connected to the long electric antenna EX. However, periodically it was used with the BZ search coil magnetometer. The search coil sensitivity was 35 microvolts per nT per Hz up to 10 kHz and then fell 12dB per octave (down by a factor of four for every factor of two increase in frequency). Extreme caution should be used in interpreting the magnetic field data detected by the SFR above 10 kHz to insure that the data are real and not noise or interference amplified by the increasingly small sensitivity levels in the denominator.

The reasons for archiving the raw data numbers are that they require one fourth the space of the calibrated values and that the final data product depends on the user.

D. PERFORMANCE_OF_THE_INSTRUMENT

This experiment showed no anomalies in its operation throughout the lifetime of the spacecraft. Interference glitches from four sources were occasionally observed and flags to identify the possible presence of these glitches are included in the archived data. The data from the search coil magnetometers has possible interference when the internal Z-measurement calibration operates and when the WIM scan platform passes through certain positions. The data from the electric field sensors has possible interference when HAM applies signals to the antennas and when MOM performs bias sweeps.

The WIM Medium Energy Particles Experiment's scan platform generates noise which shows up as bursts in the search coil data in the frequency range from 56.2 Hz to 562 Hz when the scan platform passes through the spin plane. When the scan platform is operating, the glitch occurs approximately every six spins. When this glitch flag is set, one needs to examine the data to determine whether or not the glitches exceed the naturally occuring signals in this frequency range.

The Z-MEAS flag indicates when internally generated signals are applied to the search coil antennas. When this glitch flag is set, one needs to examine the data to determine whether or not the glitches exceed the naturally occuring signals in the search coil data.

The MOZER flag identifies possible interference when the MOM experiment performs a bias sweep. In normal operations a bias sweep was performed in a two second period every 128 seconds. This resulted in spikes appearing in the electric field data. When this glitch flag is set, one needs to examine the data to determine whether or not the glitches exceed the naturally occuring signals in the electric field data.

The HARVEY flag identifies possible interference when the HAM experiment injects signals on either of the long electric dipole antennas. When this glitch flag is set, one needs to examine the data to determine whether or not the glitches exceed the naturally occuring signals in the electric field data. When the HAM interference occurs, it frequently cycles on and off at periods of 128, 256, or 512 seconds.

For any type of survey study, it would be best to reject the respective data when a glich flag is set. For high-time resolution event studies,

it would be appropriate to examine the data in detail to see whether or not the naturally occurring or the interference signals dominate.

Interference noise generated by the solar array is frequently evident in the electric field data at low frequencies up to about 100 Hz.

E. RESOLUTION:
The raw data numbers range from 0 to 255. The calibrated voltages they represent range from about one microvolt to about three volts. The effective antenna length of the long wire electric dipole is 107.5 m. The transfer function for the search coils in the frequency range from 5.6 Hz to 10 kHz is 35 microvolts per nT Hz.

The time resolution of the coarse resolution spectrum analyzers is one spectrum per second in low bit rate and four spectra per second in the high bit rate. The Rapid Sample output provides 8 samples per second in the low bit rate and 32 samples per second in the high bit rate for one of the top 16 channels of the Electric Spectrum Analyzer. The channel being rapidly sampled is advanced every 16 seconds. The Sweep Frequency Receiver provides one spectra every 32 seconds. Each of the 32 steps in the four bands is sampled once per second in the low bit rate and four times in the high bit rate.

The coarse resolution spectrum analyzers' filters are logarithmically spaced with four filters per decade in frequency. The Sweep Frequency Receiver frequency steps are logarithmically spaced with 32 steps for each factor of eight in frequency.

PARAMETERS:

The archived ISEE 1 Plasma Wave Experiment data files contain the year and day of year (January 1, 1978 = 78001) and UT start time of the file in milliseconds, the average frame time in microseconds, the satellite position in GSE coordinates in meters, the spin period determined from the sun sensors, the angle in the spin plane between the EX antenna and the spacecraft-Sun line at the beginning of the record, the spin period determined from the magnetometer, the angle in the spin plane between the EX antenna and the ambient magnetic field, flags indicating data rate and the validity of the sun and magnetic attitude parameters and data quality, flags identifying the antennas connected to the receivers and whether or not glitches are possible, the frequency steps of the Sweep Frequency Receiver, the Rapid Sample Channels, the Electric Spectrum Analyzer raw data, the Magnetic Spectrum Analyzer raw data, the Rapid Sample raw data, the Sweep Frequency Receiver raw data, flags identifying the mode and range of the Wideband Receiver data, the Wideband Receiver Automatic Gain Control raw data numbers and the Wideband Receiver DC Compressor raw data numbers.

DATA_SET_QUALITY:

In addition to the glitch flags described earlier, the records also contain flags indicating the data quality of the original Experimenter Data Records from which the archived data has been produced. If the data quality is not perfect for a set of four minor frames, those four minor frames should not be used.

DATA_PROCESSING_OVERVIEW:

A. DATA_PROCESSING_CYCLE:
The ISEE 1 Plasma Wave Experiment De-com tapes containing the Experimenter

Data Records were processed using the ISEE 1 processing program ISEEARCH. For each 64 minor frames of data, the various time, orbit, attitude, antenna selection, frequency step, wideband receiver mode and range, glitch, and data quality parameters were calculated and output to files along with the raw data from the receivers. Each file contains the data for one day. These files were written to magnetic disks for transfer to optical disks.

B. HISTORY

All of the ISEE 1 data for approximately the first three years of operation (October 22, 1977 (77-295) to December 31, 1980 (80-366)) plus the the ISEE-3 deep tail period (October 15, 1982 (82-288)) to December 25, 1983 (83-359) and the PROMIS period (January 1, 1986 (86-001) to July 15, 1986 (86-196)) have been included.

NAMING_CONVENTION:

File names contain the year and day of year for the data contained in the file. The ISEE 1 (ISEE A) data for January 1, 1978 are in the file ISEEAPWI78001.ARC. Since each record in a file contains the data for 64 minor frames, the very first record on occasion actually begins at the end of the previous day and the last record on occasion ends at the beginning of the following day.

FILE_NAME_LIST:
ISEEAPWI77295.ARC
ISEEAPWI77296.ARC
ISEEAPWI77297.ARC

...
ISEEAPWI86194.ARC
ISEEAPWI86195.ARC
ISEEAPWI86196.ARC

PREV_LOG_VOL_COVERAGE:ISEEAPWI77295 THROUGH ISEEAPWI83359

CCSD$$MARKERmarkerabCCSD3RS00003markerac

REFERENCETYPE=$VMS
LABEL=ATTACHED
REFERENCE=[ISEE]FORMAT.SFD

CCSD$$MARKERmarkeracCCSD3RF0000300000001

REFERENCETYPE=$VMS
LABEL=NSSD3IF0011600000001
REFERENCE=[ISEE.1977]*.*
REFERENCE=[ISEE.1978]*.*
REFERENCE=[ISEE.1979]*.*
REFERENCE=[ISEE.1980]*.*
REFERENCE=[ISEE.1981]*.*
REFERENCE=[ISEE.1982]*.*
REFERENCE=[ISEE.1983]*.*
REFERENCE=[ISEE.1986]*.*

==========

ISEE-1 GURNETT PLASMA WAVE DECOM DATA OPTICAL DISKS

Sample of FORMAT.SFD file
(Data format description)

CCSD3ZF0000100000001CCSD3CS00004markeraa
ADIDNAME=NSSD0116
CCSD$$MARKERmarkeraaCCSD3DF0000200000001

TYPE_OF_DATA_FILE: ISEE-1-PWE-ARCH
FILE_ATTRIBUTES: Sequential, fixed length data records
RECORD_LENGTH:
A. HEADER_RECORD: NONE
B. DATA_POINT_RECORD: 880 bytes
FORMAT_OF_THE_DATA_POINT_RECORD:

BYTE NUMBER	CONTENTS	TYPE	VALUE RANGE	UNITS
1-4	YYDDD (Year * 1000 + day of year)	I*4	77295-86196	-
5-8	Universal Time (in milliseconds)	I*4	0-86399999	milliseconds
9-12	Average minor frame length (in microseconds)	I*4	60000-260000	microseconds
13-16	X coordinate of satellite (GSE) (in meters)	R*4	+/- 153,000,000	meters
17-20	Y coordinate of satellite (GSE) (in meters)	R*4	+/- 153,000,000	meters
21-24	Z coordinate of satellite (GSE) (in meters)	R*4	+/- 153,000,000	meters
25-28	Sun Period (spin period)	R*4	0.00 - 10.00 (nominally 3.04)	seconds
29-32	EX Antenna-Sun Angle	R*4	0.00 - 359.99	degrees
33-36	Magnetic Period (spin period)	R*4	0.00 - 10.00 (nominally 3.04)	seconds
37-40	EX Antenna-Magnetic Field Angle (in spin plane)	R*4	0.00 - 359.99	degrees
41	Bit-rate flags and Data Quality	Byte	Binary 00000000 to 11111111	-

	Flag for Minor Frames 1-4			
42	Sun Attitude flag and Data Quality Flag for Minor Frames 5-8	Byte	Binary 00000000 to 11111111	-
43	Magnetic Attitude flag and Data Quality Flag for Minor Frames 9-12	Byte	Binary 00000000 to 11111111	-
44	Data Quality Flag for Minor Frames 13-16	Byte	Binary 00000000 to 11111111	-
. . .				
56	Data Quality Flag for Minor Frames 61-64	Byte	Binary 00000000 to 11111111	-
57-72	Electric Spectrum Analyzer Antenna Selection and Glitch Flags (One byte for each set of four minor frames)	Byte	Binary 00000000 to 11111111	-
73-88	Magnetic Spectrum Analyzer Antenna Selection and Glitch Flags (One byte for each set of four minor frames)	Byte	Binary 00000000 to 11111111	-
89-104	The SFR frequency steps (One byte for each set of four minor frames)	Byte	Binary 00000000 to 11111111	
105-108	The Rapid Sample Channel numbers	Byte	Binary	
109-128	The ESA data from the first four minor frames.	Byte	0 to 255	
129-148	The ESA data from the second four minor frames.	Byte	0 to 255	
. . .				
409-428	The ESA data from	Byte	0 to 255	

	the last four minor frames.		
429-442	The MSA data from the first four minor frames.	Byte	0 to 255
443-456	The MSA data from the second four minor frames.	Byte	0 to 255
. . .			
639-652	The MSA data from the last four minor frames.	Byte	0 to 255
653-780	The Rapid Sample Data (128 bytes)	Byte	0 to 255
781-784	The SFR data (SFR1, SFR2,SFR3,SFR4) from the first four minor frames.	Byte	0 to 255
785-788	The SFR data (SFR1, SFR2,SFR3,SFR4) from the second four minor frames.	Byte	0 to 255
. . .			
841-844	The SFR data (SFR1, SFR2,SFR3,SFR4) from the last four minor frames.	Byte	0 to 255
845	Wideband Mode and Range for the first 16 minor frames.	Byte	Binary
846	Wideband Mode and Range for the second 16 minor frames.	Byte	Binary
847	Wideband Mode and Range for the third 16 minor frames.	Byte	Binary
848	Wideband Mode and Range for the last 16 minor frames.	Byte	Binary
849-864	Wideband AGC Data for each four	Byte	0-255

minor frames.

865-880	Wideband DC Compressor Data for each four minor frames.	Byte	0-255

******

```
ISEE A ARCHIVE FORMAT DATA TYPES
STRUCTURE /ARCHIV/
   INTEGER      IYEAR
   INTEGER      MDAY
   INTEGER      MFRM
   REAL         GSEX
   REAL         GSEY
   REAL         GSEZ
   REAL         SPER
   REAL         SANG
   REAL         BPER
   REAL         BANG
   BYTE         OK(16)
   BYTE         EFLGS(16)
   BYTE         BFLGS(16)
   BYTE         SFRSTP(16)
   BYTE         RSCHN(4)
   BYTE         ESA(20,16)
   BYTE         MSA(14,16)
   BYTE         RS(128)
   BYTE         SFR(4,16)
   BYTE         WBFLGS(4)
   BYTE         WBAGC(16)
   BYTE         WBDC(16)
END STRUCTURE
RECORD /ARCHIV/ ISEEA
        ISEE-1 ARCHIVE TAPE FORMAT
```

!#BYTES	
! 4	YYDDD
! 4	MILLISECONDS OF DAY
! 4	FRAME TIME
! 4	ORBIT POSITION X
! 4	Y
! 4	Z
! 4	SEE SUN PERIOD
! 4	SUN ANGLE
! 4	MAGNETIC PERIOD
! 4	MAG ANGLE
! 16	DATA QUALITY FLAGS
! 16	ESA FLAGS & ANTENNA
! 16	MSA FLAGS & ANTENNA
! 16	SFR STEPS
! 4	RAPID SAMPLE CHANNEL
! 320	ESA DATA
! 224	MSA DATA
! 128	RAPID DATA
! 64	SFR DATA
! 4	WB MODE AND RANGE
! 16	WB AGC
! 16	WB DC COMP
!-------	
! 880	

(SEE STRUCTURE DESCRIPTION ABOVE FOR DATA TYPE)

WORD	BYTE	COUNT	ITEM DESCRIPTION
1	1	4	YEAR*1000 + DAY OF YEAR, EG. 1/1/1980 = 80001
2	5	4	MILLISECONDS OF DAY
3	9	4	AVERAGE FRAME TIME, (MICROSECONDS)
4	13	4	GSEX, (METERS)
5	17	4	GSEY
6	21	4	GSEZ
7	25	4	SPIN PERIOD FROM SUN SENSOR, (SECONDS)
8	29	4	ANGLE BETWEEN EX ANTENNA AND S/C-SUN LINE
9	33	4	SPIN PERIOD FROM MAGNETOMETER
10	37	4	ANGLE BETWEEN BX AXIS AND MAGNETIC FIELD LINE
	41	16	DATA QUALITY FLAGS, PLUS BIT RATE & ATTITUDE QUALITY

```
MSB: 7 6 5 4 3 2 1 0 :LSB
DQ1        1 0            LOW RATE
           1 1            HIGH RATE
DQ2          X            SUN ATTITUDE FLAG
DQ3          X            MAGNETIC ATTITUDE FLAG
DQ1            1 1 0 0    DQ FOR MINOR FRAMES 0 - 3
...
DQ16           1 1 0 0    DQ FOR MINOR FRAMES 60 - 63
```

```
57      16      ESA GLITCHES AND ANTENNA
                MSB: 7 6 5 4 3 2 1 0 :LSB
                         | | | | X X    ANTENNA:
                         | | | |        00 - EX OR EV
                         | | | |        01 - ES
                         | | | |        10 - EY OR EU
                         | | | |        11 - BZ SEARCH COIL
                         | | | X        SCAN PLATFORM (B)
                         | | X          Z-MEAS (B)
                         | X            MOZER (E)
                         X              HARVEY (E)
73      16      MSA GLITCHES AND ANTENNA
                MSB: 7 6 5 4 3 2 1 0 :LSB
                         | | | | X X    ANTENNA:
                         | | | |        00 - EX
                         | | | |        01 - BX SEARCH COIL
                         | | | |        10 - BY SEARCG COIL
                         | | | |        11 - BZ SEARCH COIL
                         | | | X        SCAN PLATFORM (B)
                         | | X          Z-MEAS (B)
                         | X            MOZER (E)
                         X              HARVEY (E)
89      16      SFR STEPS
105     4       RAPID SAMPLE CHANNELS
109     20      ESA CHANNELS 0 - 19
                .
        280     14 MORE SETS
                .
409     20      ESA CHANNELS 0 - 19
429     14      MSA CHANNELS 0 - 13
                .
        196     14 MORE SETS
                .
639     14      MSA CHANNELS 0 - 13
653     128     RAPID SAMPLE DATA
781     4       SFR CHANNELS 1 - 4
                .
        56      14 MORE SETS
                .
841     4       SFR CHANNELS 1 - 4
845     4       WB MODE AND RANGE
                MSB: 7 6 5 4 3 2 1 0 :LSB
                         X X            MODE:
                             X X X X    RANGE:
                                        0 - BASEBAND
                                        1 - 31.25KHZ
                                        2 - 62.5 KHZ
                                        3 - 12.5 KHZ
                                        4 - 250. KHZ
                                        5 - 500. KHZ
                                        6 - 1.0  MHZ
                                        7 - 2.0  MHZ
849     16      WB AGC
865     16      WB DC COMP
        -----
        880
```

****

VOLDESC.SFD

Voldesc.SFD

CCSD3ZF0000100000001CCSD3VS00002markeraa

LOG_VOL_IDENT: USA_NASA_NSSD_IC1G_0001A
LOG_VOL_NSSDC_EXPT_ID: 77-102A-07
LOG_VOL_INITIATION_DATE: 1991-10-11
LOG_VOL_CLOSING_DATE: 1992-05-01
LOG_VOL_CAPACITY: 1GB/LOGICAL_VOL
LOG_VOL_FILE_STRUCTURE: FILES-11
VOLUME_DIAMETER: 12 INCHES
VOLUME_DRIVE_MFGR_AND_MODEL: OPTIMEM 1000
COMPUTER_MFGR: DIGITAL EQUIPMENT CORPORATION
OPERATING_SYSTEM: VMS 5.4
COMPUTER_SYSTEM: VAX CLUSTER
TRANSFER_SOFTWARE: SOAR 4.2
TECHNICAL_CONTACT: DR. ROGER R. ANDERSON, THE UNIVERSITY OF IOWA,
DEPARTMENT OF PHYSICS AND ASTRONOMY, IOWA CITY, IA 52242,
(319)335-1924, IOWAVE::ANDERSON
PREV_LOG_VOLS: NONE

CCSD$$MARKERmarkeraaCCSD3SS00002markerab

DATA_SET_NAME: ISEE 1 PLASMA WAVE EXPERIMENT DIGITAL DATA (IC1PWEDD)
DATA_SOURCES: INTERNATIONAL SUN EARTH EXPLORER 1 (ISEE 1) PLASMA
WAVE EXPERIMENT
SCIENTIFIC_CONTACT:PRINCIPAL INVESTIGATOR:PROFESSOR DONALD A. GURNETT,
THE UNIVERSITY OF IOWA, DEPARTMENT OF PHYSICS AND ASTRONOMY,
IOWA CITY, IA 52242, (319)335-1967, IOWAVE::GURNETT;
CO-INVESTIGATOR:DR. ROGER R. ANDERSON,THE UNIVERSITY OF IOWA,
DEPARTMENT OF PHYSICS AND ASTRONOMY, IOWA CITY, IA 52242,
(319)335-1924, IOWAVE::ANDERSON

SOURCE_CHARACTERISTICS:

A. DESCRIPTION_OF_SPACECRAFT:
The International Sun-Earth Explorer (ISEE) Program consisted of three satellites intended to study the Earth's magnetosphere and the solar wind. ISEE 1 and ISEE 2 were launched on October 22, 1977 into highly elliptical geocentric orbits. The satellites passed through the magnetosphere and into the magnetosheath during each orbit. ISEE 3 was launched on August 12, 1978 and subsequently inserted into a "halo orbit" about the the libration point situated about 240 earth radii (Re) upstream between the earth and the sun. Plasma passing this point arrives at the earth about one hour later where it may cause changes that can be observed by ISEE 1 and ISEE 2. These two spacecraft, separated by a variable distance and with similar instrument complements, were intended to resolve the space-time ambiguity associated with measurements by a single spacecraft on thin boundaries which may be in motion such as the bow shock and the magnetopause. ISEE 1 and ISEE 3 were the principal U. S. contributions to the International Magnetospheric Study. ISEE 2 was built and managed by the European Space Agency. In September 1982 ISEE 3 was diverted from its "halo orbit" to explore the earth's deep tail region through much of 1983 on its way to an encounter with the comet Giacobini Zinner in September 1985. ISEE 1 had a complement of thirteeen experiments to measure the waves, fields, plasma, and particles. The University of Iowa Plasma Wave Experiment was one of these thirteen. For further information on the ISEE project see the following references: Ogilvie, K. W., T. von Rosenvinge, and A. C. Durney, "International sun-earth explorer, A three spacecraft program," Science vol. 198, no. 131, 1977; and Ogilvie, K. W., A. Durney, and T. von Rosenvinge, "Descriptions of experimental investigations and instruments for the ISEE spacecraft," IEEE Transactions on Geoscience Electronics, Vol. GE-16, No. 3, pp 151-153, July 1978.

B. ORBIT_INFORMATION:
The ISEE 1 satellite was launched on October 22, 1977 into an orbit with

an apogee of 23.2 earth radii, an inclination of 28.8 degrees, and a period of 57 hours. The satellite spun about an axis perpendicular to the ecliptic plane at about 19.7 revolutions per minute. Re-entry occurred on September 26, 1987.

C.PERFORMANCE:
This experiment showed no anomalies in its operation throughout the lifetime of the spacecraft. Interference glitches from four sources were occasionally observed and flags to identify the possible presence of these glitches are included in the archived data. The data from the search coil magnetometers has possible interference when the internal Z-measurement calibration operates and when the WIM (Williams, Medium Energy Particle Instrument) scan platform passes through certain positions. The data from the electric field sensors has possible interference when HAM (Harvey, Electron Density Experiment) applies signals to the antennas and when MOM (Mozer, Quasi-static Electric Field Experiment) performs bias sweeps.

INVESTIGATION_OBJECTIVES
The primary science objectives of the ISEE 1 and ISEE 2 plasma wave investigations were: (1) to resolve spatial and temporal variations for a wide variety of magnetospheric and solar wind plasma wave phenomena; (2) to provide basic information on wave-particle interactions in the earth's magnetosphere and in the solar wind; and (3) to perform a variety of long baseline interferometry experiments on both terresrial and extraterresrial radio sources at selected frequencies up to 2 MHz.

INSTRUMENT_ATTRIBUTES

A. DESCRIPTION_OF_INSTRUMENT

The ISEE 1 Plasma Wave Instrument uses three electric dipole antennas with lengths of 215, 73.5, and 0.61 meters for electric-field measurements, and triaxial search coil magnetometers for magnetic-field measurements. The ISEE 1 Plasma Wave Experiment includes five receivers: (1) an Electric Spectrum Analyzer (ESA); (2) a Magnetic Spectrum Analyzer (MSA); (3) a Sweep Frequency Receiver (SFR); (4) a Wave Normal Analyzer; and (5) a Wideband Receiver.

All of the electric antennas are in the spin plane of the spacecraft. The EX (also designated EV) antenna is a thin wire electric dipole antenna with a tip-to-tip length of 215 meters which is shared with the Heppner DC Electric Field Experiment. The preamplifiers for this antenna are mounted inside the spacecraft at the base of each antenna element. The effective antenna length for AC signals for the EX antenna is assumed to be one half its total length and thus 107.5 meters. The EY (also designated EU) antenna consists of two 8-cm diameter spheres mounted on the ends of multiconductor cable which provides power and signal returns for high-impedance preamplifiers located inside of each sphere. The effective antenna length of the EY antenna is the sphere-to-sphere separation distance of 73.5 meters. The EY antenna was provided by and is shared with the Mozer Quasi-static Electric Field Experiment. The ES antenna is a short two-sphere electric antenna with a sphere-to-sphere separation of 0.61 meter which is mounted out about three meters from the spacecraft on the triaxial search coil magnetometers boom.

The triaxial Search Coil Magnetometers (BX, BY, and BZ) are mounted about 3.25 meters from the spacecraft on the same boom as the short electric (ES) antenna. The BZ axis is along the spacecraft spin axis. The BX axis is parallel to the EX axis and the BY axis is parallel to the EY axis. Each search coil magnetometer has a high permeability mu-metal core 16 inches long wound with 10,000 turns of fine wire and a preamplifier to provide signals to the main electronics package in the spacecraft. The coil sensitivity constant is 35 microvolts per nT Hz and the upper cutoff frequency is 10 kHz.

High time resolution measurements are obtained from the two coarse resolution spectrum analyzers. The Electric Spectrum Analyzer consists of a 20-channel analyzer covering the frequency range from 5.6 Hz to 311 kHz and the Magnetic Spectrum Analyzer consists of a 14-channel analyzer covering the frequency range from 5.6 Hz to 10 kHz. These analyzers have relatively coarse frequency resolution, with four frequency channels per decade (at 5.6 Hz, 10.0 Hz, 17.8 Hz, and 31.1 Hz and multiples of ten up to their respective maximum frequencies) and bandwidths of +- 15 % of their center frequencies up to 10 kHz, and +- 7.5 % of their center frequencies for 10 kHz and above. All channels are sampled simultaneously so that electric-to-magnetic-field ratios can be accurately determined. The outputs from the spectrum analyzers are voltages proportional to the logarithm of the field strength with a dynamic range of 110 dB. The analyzer outputs are converted to an 8-bit binary number for transmission by the spacecraft data system. By command the Electric Spectrum Analyzer can be connected to either the EX, the EY, the ES, or the BZ antenna. By command, the Magnetic Spectrum Analyzer can be connected to the BX, the BY, the BZ, or the EX antenna. The command selection for the Sweep Frequency Receiver and the Wideband Receiver were the same as for the Electric Spectrum Analyzer.

The narrow-band Sweep Frequency Receiver provides very high-resolution frequency spectra at relatively low time resolution. The Sweep Frequency Receiver has 32 frequency steps in each of four bands covering the frequency range from 100 Hz to 400 kHz. The frequency steps are logarithmically spaced with a frequency resolution (delta f/f) of about 6.5 %. The time for a complete sweep is 32 seconds. The output of the receiver is a voltage proportional to the logarithm of the signal strength. The dynamic range of the receiver is 100 dB in the lowest three frequency bands (100 Hz to 830 Hz, 830 Hz to 6.7 kHz, and 6.7 kHz to 50 kHz) and 80 dB in the highest frequency band (50 kHz to 400 kHz).

The Wave Normal Analyzer provides detailed phase and amplitude measurements between the various electric-field and magnetic field components for purposes of computing the wave normal direction and Poynting flux. The Wave Normal Analyzer consists of five narrow-band frequency conversion receivers all tuned to the same frequency. These receivers are connected to the EX, EY, BX, BY, and BZ antennas. The relative phase of the signals in all five receivers is preserved by using the same frequency conversion signal to each receiver. Each receiver produces two outputs which correspond to the cosine and sine components (or real and imaginary parts) of the signal being detected by that channel. The sine output is obtained by shifting the phase of the frequency conversion signal by 90 degrees, relative to the frequency conversion signal for the cosine output. The ten sine and cosine outputs are all sampled simultaneously and held for transmission by sample-and-hold circuits. The bandwidth of the wave normal analyzer is 10 Hz and the center frequency can be tuned to any one of 32 frequencies from 100 Hz to 5 kHz, or can be commanded to step through all 32 frequencies at a rate of one step every 32 seconds. The receivers have a digital automatic gain control which maintains the output amplitudes within the proper dynamic range. The automatic gain control has 16 discrete gain steps and is updated once every second. Because the data from the Wave Normal Analyzer require much auxiliary information in order to properly analyze and interpet them which would dramatically increase the storage required to archive them, it has been decided not to include them in this archiving effort.

The Wide Band Receiver conditions electric and magnetic field waveforms for transmission to the ground via the special purpose transmitter. Because of the large dynamic range of the received signals and the low signal-to-noise ratio of the analog telemetry link, an automatic gain control is used to maintain a nearly constant signal amplitude into the wide-band transmitter, independent of the amplitude of the received signals. Because of the automatic gain control, only relative amplitudes can be determined from the wide band data acquired on the ground. Although absolute amplitudes cannot be determined, these measurements

still provide extremely high time resolution, since waveforms with bandwidths of up to 40 kHz can be transmitted to the ground for detailed analysis. The wide band receiver has two basic frequency channels. one from 10 Hz to 1 kHz which is transmitted as an FM subcarrier, and another from 650 Hz to 10 kHz (or 40 kHz) which directly modulates the wide-band transmitter. The choice of 10 kHz or 40 kHz is determined by command. In addition to the bandwidth selection, the frequency range of the wide-band receiver can also be shifted by a frequency conversion scheme to any one of eight frequency ranges from baseband (no frequency conversion) up to 2 MHz. The low frequency limits of these bands are 0 kHz, 31.25 kHz, 62.5 kHz, 125 kHz, 250 kHz, 500 kHz, 1 MHz, and 2 MHz. Although the wideband data received at the ground are analog and have not been converted to digital for archiving, the Wideband DC Compressor voltage and the Automatic Gain Control voltages which appear in the telemetry and which indicate the intensity of the wideband signals (in the two basic frequency channels, respectively) are included in the archive. Information on the mode (10 kHz or 40 kHz) and the range (the frequency band of the upper channel) are also included in the archive.

For further information see the following references:
Gurnett, D. A., F. L. Scarf, R. W. Fredricks, and E. J. Smith, "The ISEE-1 and ISEE-2 Plasma Wave Investigation, "IEEE Transactions on Geoscience Electronics, Vol. GE-16, No. 3, pp 225-230, July 1978.
Gurnett, D. A., R. R. Anderson, F. L. Scarf, R. W. Fredricks, and E. J. Smith, "Initial Results from the ISEE-1 and -2 Plasma Wave Investigation," Space Science Reviews, 23, pp 103-122, 1979.

B. OPERATIONAL_MODE:
The sampling rate for each of the coarse spectrum analyzers is one spectrum per second in the low data rate and four spectra per second in the high data rate. Additionally, a Rapid Sample output provides 8-times higher sampling sequentially (at 16 second intervals) for the top 16 channels of the Electric Spectrum Analyzer. For 16 seconds the 56.2 Hz channel is sampled 8 or 32 times per second. Then the 100 Hz channel is sampled at 8 or 32 times per second. For the majority of the time, the Electric Spectrum Analyzer was connected to the EX antenna and the Magnetic Spectrum Analyzer was connected to the BX antenna. In the first few years of operation of ISEE, approximately every fourth orbit the Electric Spectrum Analyzer was connected to the BZ antenna and the Magnetic Spectrum Analyzer was connected to the EX antenna. The purpose for this was to be able to collect wideband data from the search coil magnetometer.

The basic data grouping for archiving is 64 minor frames. Each minor frame contains 128 words of data and each word is 8 bits long. The ISEE 1 low bit rate is 4096 bits/second and the ISEE 1 high bit rate is 16384 bits/second. One minor frame is 1/4 second on low bit rate and 1/16 second in high bit rate. A complete spectrum from each of the coarse spectrum analyzers (20 + 14 = 34 samples) is obtained every 4 minor frames. The Rapid Sample output is sampled twice per minor frame. The Electric Spectrum Analyzer channel that is connected to the Rapid Sample is advanced every 16 seconds. One sample is collected from each of the four Sweep Frequency Receiver bands every four minor frames. The frequency steps for the Sweep Frequency Receiver bands are advanced once per second. In the low bit rate the frequency step of each SFR band is sampled once and in the high bit rate the frequency step of each band is sampled four times.

C. MEASURED_PARAMETERS
The measured parameters from the ISEE 1 Plasma Wave Experiment are the voltages output by the sensors in known bandwidths. Electric and/or magnetic field strengths and spectral densities can be calculated from these voltages. The archived data contains the raw data numbers measured for the respective receivers. The files necessary to convert these raw data numbers to whatever geophysical units are desired by the user (such as Volts RMS, V/m, V**2/m**2/Hz, nT, etc.) are contained in the ISEE_1_PWE_CAL_DATA tape archived at the National

Space Science Data Center. To obtain the voltages for the respective receivers one uses the lookup table for each of the respective receivers' logarithmic compressors. The twenty lookup tables for the ESA are contained in the ESACAL.FOR file as 256-element arrays labeled CH1, CH2, ... CH20. CH1 is used for ESA Channel 00 (5.6 Hz); CH2 is used for ESA Channel 01 (10 Hz); ... and CH20 is used for ESA Channel 19 (311 kHz). Since the raw voltage data numbers run from 0 to 255, 1 must be added to the data number to find the correct value in the lookup tables. The correct calibrated voltage value for a data number of 100 in the 5.6 Hz ESA data would thus be found in array element CH1(101). The appropriate lookup table for the RAPID SAMPLE data is determined by the RAPID SAMPLE channel number in the archived data which equals the corresponding ESA Channel number. The sixteen possible RAPID SAMPLE Channel numbers run from 4 to 19. Thus one would use the CH5 array in ESACAL.FOR to determine the appropriate signal levels when the RAPID SAMPLE Channel number was 4 (corresponding to the 56.2 Hz Channel). The fourteen lookup tables for the MSA data are contained in the MSACAL.FOR file. To obtain the measured input signal for a given sensor one then uses a lookup table for the gain factors for each of the respective sensors that can be connected to the given receiver. For the ESA, this information is contained in the ESA_ANT_GAIN.DOC file in the ISEE_1_PWE_CAL_DATA tape. For the MSA, the information are in the MSA_ANT_GAIN.DOC file. The ESA_ANT_GAIN.DOC file has four columns of gain factors (one each for EX, EY, ES, and BZ) and one column showing the effective noise bandwidth for the given channel. The file contains twenty rows (one for each of the 20 channels). The results after the multiplication by the gain factors are in Volts RMS for the electric antennas and in nT (gamma) for the BZ antenna. The MSA_ANT_GAIN.DOC file has four columns of gain factors (one each for EX, BX, BY, and BZ) and one column showing the effective noise bandwidth for the given channel. The file contains fourteen rows (one for each of the 14 channels). The results after the multiplication by the gain factors are in Volts RMS for the electric antenna and in nT (gamma) for the magnetic antennas. From this point on the user has sufficient information to convert to whatever geophysical units they desire to use. For example, if they want electric field (V/m) they need to divide the Voltage obtained by the effective length of the antenna being used. If they desire spectral density, they must square the result and divide by the effective noise bandwidth. The magnetic field spectral density is calculated by dividing the magnetic field strength by the square root of the effective noise bandwidth for the respective receiver channel.

The calibration tables for the Sweep Frequency Receiver (SFR) are contained in the file ISEE1_SFRCAL.FOR file and the 128 frequency steps (there are four bands and 32 steps per band) are listed in the SFR_FREQUENCY.DOC file on the ISEE_1_PWE_CAL_DATA tape. ISEE1_SFRCAL.FOR contains eight REAL arrays. The first four arrays have 32 rows and 4 columns each and contain the relative gain factors for the four sensors (EX, EY, ES, and BZ) between the 32 steps in each band. Array A is for SFR1 (50 kHz to 400 kHz). Array B is for SFR2 (6.4 kHz to 50 kHz). Array C is for SFR3 (800 Hz to 6.4 kHz). Array D is for SFR4 (100 Hz to 800 Hz). The last four arrays have 256 elements each. They contain the logarithm to the base 10 of the Voltage corresponding to the data number for each of the four SFR bands. Array S is for SFR1 (50 kHz to 400 kHz). Array T is for SFR2 (6.4 kHz to 50 kHz). Array U is for SFR3 (800 Hz to 6.4 kHz). Array V is for SFR4 (100 Hz to 800 Hz). Since the array elements go from 1 to 256 while the data numbers go from 0 to 255, 1 must be added to the data number to find the correct value. In the archived data, the SFR step numbers (SFRSTP) go from 0 to 31. Thus to determine the proper gain, one must add 1 to the SFRSTP value to find the correct gain factor. If the ESA (and thus also the SFR) was connected to the EX antenna and one wanted the voltage corresponding to data number 101 for SFRSTP=9 (step 10) of SFR1, you would multiply A(1,10) times 10.0**S(102). If one wanted the voltage corresponding to data number 150 for SFRSTP=19 (step 20) of SFR2, you would multiply B(1,20) times

10.0**T(151). If the ESA was connected to the BZ antenna and one wanted the magnetic field strength corresponding to data number 101 for SFRSTP=9 (step 10) of SFR1, you would multiply A(4,10) times 10.0**S(102). For the electric antennas the results are in RMS Volts and for the BZ antenna the results are in nT. To determine the electric field strength measured by the SFR when connected to one of the electric antennas, one divides the measured voltage by the effective antenna length. To determine the spectral density, the electric field strength result is squared and divided by the effective noise bandwidth. The magnetic field spectral density is calculated by dividing the magnetic field strength by the square root of the effective noise bandwidth for the appropriate SFR band. The effective noise bandwidths are 1792 Hz for SFR1, 224 Hz for SFR2, 28 Hz for SFR3, and 3.5 Hz for SFR4. In the data files, the first SFR byte is for SFR1, the second is for SFR2, the third is for SFR3, and the fourth is for SFR4.

The SFR was normally operated connected to the long electric antenna EX. However, periodically it was used with the BZ search coil magnetometer. The search coil sensitivity was 35 microvolts per nT per Hz up to 10 kHz and then fell 12dB per octave (down by a factor of four for every factor of two increase in frequency). Extreme caution should be used in interpreting the magnetic field data detected by the SFR above 10 kHz to insure that the data are real and not noise or interference amplified by the increasingly small sensitivity levels in the denominator.

The reasons for archiving the raw data numbers are that they require one fourth the space of the calibrated values and that the final data product depends on the user.

D. PERFORMANCE_OF_THE_INSTRUMENT

This experiment showed no anomalies in its operation throughout the lifetime of the spacecraft. Interference glitches from four sources were occasionally observed and flags to identify the possible presence of these glitches are included in the archived data. The data from the search coil magnetometers has possible interference when the internal Z-measurement calibration operates and when the WIM scan platform passes through certain positions. The data from the electric field sensors has possible interference when HAM applies signals to the antennas and when MOM performs bias sweeps.

The WIM Medium Energy Particles Experiment's scan platform generates noise which shows up as bursts in the search coil data in the frequency range from 56.2 Hz to 562 Hz when the scan platform passes through the spin plane. When the scan platform is operating, the glitch occurs approximately every six spins. When this glitch flag is set, one needs to examine the data to determine whether or not the glitches exceed the naturally occuring signals in this frequency range.

The Z-MEAS flag indicates when internally generated signals are applied to the search coil antennas. When this glitch flag is set, one needs to examine the data to determine whether or not the glitches exceed the naturally occuring signals in the search coil data.

The MOZER flag identifies possible interference when the MOM experiment performs a bias sweep. In normal operations a bias sweep was performed in a two second period every 128 seconds. This resulted in spikes appearing in the electric field data. When this glitch flag is set, one needs to examine the data to determine whether or not the glitches exceed the naturally occuring signals in the electric field data.

The HARVEY flag identifies possible interference when the HAM experiment injects signals on either of the long electric dipole antennas. When this glitch flag is set, one needs to examine the data to determine whether or not the glitches exceed the naturally occuring signals in the electric field data. When the HAM interference occurs, it frequently cycles on and off at periods of 128, 256, or 512 seconds.

For any type of survey study, it would be best to reject the respective data when a glich flag is set. For high-time resolution event studies, it would be appropriate to examine the data in detail to see whether or not the naturally occurring or the interference signals dominate.

Interference noise generated by the solar array is frequently evident in the electric field data at low frequencies up to about 100 Hz.

E. RESOLUTION:
The raw data numbers range from 0 to 255. The calibrated voltages they represent range from about one microvolt to about three volts. The effective antenna length of the long wire electric dipole is 107.5 m. The transfer function for the search coils in the frequency range from 5.6 Hz to 10 kHz is 35 microvolts per nT Hz.

The time resolution of the coarse resolution spectrum analyzers is one spectrum per second in low bit rate and four spectra per second in the high bit rate. The Rapid Sample output provides 8 samples per second in the low bit rate and 32 samples per second in the high bit rate for one of the top 16 channels of the Electric Spectrum Analyzer. The channel being rapidly sampled is advanced every 16 seconds. The Sweep Frequency Receiver provides one spectra every 32 seconds. Each of the 32 steps in the four bands is sampled once per second in the low bit rate and four times in the high bit rate.

The coarse resolution spectrum analyzers' filters are logarithmically spaced with four filters per decade in frequency. The Sweep Frequency Receiver frequency steps are logarithmically spaced with 32 steps for each factor of eight in frequency.

PARAMETERS:

The archived ISEE 1 Plasma Wave Experiment data files contain the year and day of year (January 1, 1978 = 78001) and UT start time of the file in milliseconds, the average frame time in microseconds, the satellite position in GSE coordinates in meters, the spin period determined from the sun sensors, the angle in the spin plane between the EX antenna and the spacecraft-Sun line at the beginning of the record, the spin period determined from the magnetometer, the angle in the spin plane between the EX antenna and the ambient magnetic field, flags indicating data rate and the validity of the sun and magnetic attitude parameters and data quality, flags identifying the antennas connected to the receivers and whether or not glitches are possible, the frequency steps of the Sweep Frequency Receiver, the Rapid Sample Channels, the Electric Spectrum Analyzer raw data, the Magnetic Spectrum Analyzer raw data, the Rapid Sample raw data, the Sweep Frequency Receiver raw data, flags identifying the mode and range of the Wideband Receiver data, the Wideband Receiver Automatic Gain Control raw data numbers and the Wideband Receiver DC Compressor raw data numbers.

DATA_SET_QUALITY:

In addition to the glitch flags described earlier, the records also contain flags indicating the data quality of the original Experimenter Data Records from which the archived data has been produced. If the data quality is not perfect for a set of four minor frames, those four minor frames should not be used.

DATA_PROCESSING_OVERVIEW:

A. DATA_PROCESSING_CYCLE:
The ISEE 1 Plasma Wave Experiment De-com tapes containing the Experimenter Data Records were processed using the ISEE 1 processing program ISEEARCH. For each 64 minor frames of data, the various time, orbit, attitude, antenna selection, frequency step, wideband receiver mode and range, glitch, and data quality parameters were calculated and output to files along with the raw data from the receivers. Each file contains the data for one day. These files were written to magnetic disks for transfer to optical disks.

B. HISTORY

All of the ISEE 1 data for approximately the first three years of operation (October 22, 1977 (77-295) to December 31, 1980 (80-366)) plus the the ISEE-3 deep tail period (October 15, 1982 (82-288)) to December 25, 1983 (83-359) and the PROMIS period (January 1, 1986 (86-001) to July 15, 1986 (86-196)) have been included.

NAMING_CONVENTION:

File names contain the year and day of year for the data contained in the file. The ISEE 1 (ISEE A) data for January 1, 1978 are in the file ISEEAPWI78001.ARC. Since each record in a file contains the data for 64 minor frames, the very first record on occasion actually begins at the end of the previous day and the last record on occasion ends at the beginning of the following day.

FILE_NAME_LIST:
ISEEAPWI77295.ARC
ISEEAPWI77296.ARC
ISEEAPWI77297.ARC

...
ISEEAPWI86194.ARC
ISEEAPWI86195.ARC
ISEEAPWI86196.ARC

PREV_LOG_VOL_COVERAGE:NONE

CCSD$$MARKERmarkerabCCSD3RS00003markerac

REFERENCETYPE=$VMS
LABEL=ATTACHED
REFERENCE=[ISEE]FORMAT.SFD

CCSD$$MARKERmarkeracCCSD3RF0000300000001

REFERENCETYPE=$VMS
LABEL=NSSD3IF0011600000001
REFERENCE=[ISEE.1977]*.*
REFERENCE=[ISEE.1978]*.*
REFERENCE=[ISEE.1979]*.*
REFERENCE=[ISEE.1980]*.*
REFERENCE=[ISEE.1981]*.*
REFERENCE=[ISEE.1982]*.*
REFERENCE=[ISEE.1983]*.*
REFERENCE=[ISEE.1986]*.*

FORMAT.SFD

Format.SFD

CCSD3ZF0000100000001CCSD3CS00004markeraa
ADIDNAME=NSSD0116
CCSD$$MARKERmarkeraaCCSD3DF0000200000001

TYPE_OF_DATA_FILE: ISEE-1-PWE-ARCH
FILE_ATTRIBUTES: Sequential, fixed length data records
RECORD_LENGTH:
A. HEADER_RECORD: NONE
B. DATA_POINT_RECORD: 880 bytes
FORMAT_OF_THE_DATA_POINT_RECORD:

BYTE NUMBER	CONTENTS	TYPE	VALUE RANGE	UNITS
1-4	YYDDD (Year * 1000 + day of year)	I*4	77295-86196	-
5-8	Universal Time (in milliseconds)	I*4	0-86399999	milliseconds
9-12	Average minor frame length (in microseconds)	I*4	60000-260000	microseconds
13-16	X coordinate of satellite (GSE) (in meters)	R*4	+/- 153,000,000	meters
17-20	Y coordinate of satellite (GSE) (in meters)	R*4	+/- 153,000,000	meters
21-24	Z coordinate of satellite (GSE) (in meters)	R*4	+/- 153,000,000	meters
25-28	Sun Period (spin period)	R*4	0.00 - 10.00 (nominally 3.04)	seconds
29-32	EX Antenna-Sun Angle	R*4	0.00 - 359.99	degrees
33-36	Magnetic Period (spin period)	R*4	0.00 - 10.00 (nominally 3.04)	seconds
37-40	EX Antenna-Magnetic Field Angle (in spin plane)	R*4	0.00 - 359.99	degrees
41	Bit-rate flags and Data Quality Flag for Minor Frames 1-4	Byte	Binary 00000000 to 11111111	-
42	Sun Attitude flag and Data Quality Flag for Minor Frames 5-8	Byte	Binary 00000000 to 11111111	-
43	Magnetic Attitude flag and Data Quality Flag for Minor Frames 9-12	Byte	Binary 00000000 to 11111111	-
44	Data Quality Flag for Minor Frames 13-16	Byte	Binary 00000000 to 11111111	-

.
.

56	Data Quality Flag for Minor Frames 61-64	Byte	Binary 00000000 to 11111111	-
57-72	Electric Spectrum Analyzer Antenna Selection and Glitch Flags (One byte for each set of four minor frames)	Byte	Binary 00000000 to 11111111	-
73-88	Magnetic Spectrum Analyzer Antenna Selection and Glitch Flags (One byte for each set of four minor frames)	Byte	Binary 00000000 to 11111111	-
89-104	The SFR frequency steps (One byte for each set of four minor frames)	Byte	Binary 00000000 to 11111111	
105-108	The Rapid Sample Channel numbers	Byte	Binary	
109-128	The ESA data from the first four minor frames.	Byte	0 to 255	
129-148	The ESA data from the second four minor frames.	Byte	0 to 255	
. . .				
409-428	The ESA data from the last four minor frames.	Byte	0 to 255	
429-442	The MSA data from the first four minor frames.	Byte	0 to 255	
443-456	The MSA data from the second four minor frames.	Byte	0 to 255	
. . .				
639-652	The MSA data from the last four minor frames.	Byte	0 to 255	
653-780	The Rapid Sample Data (128 bytes)	Byte	0 to 255	
781-784	The SFR data (SFR1, SFR2,SFR3,SFR4) from the first four minor frames.	Byte	0 to 255	

785-788	The SFR data (SFR1, SFR2,SFR3,SFR4) from the second four minor frames.	Byte	0 to 255
.			
.			
.			
841-844	The SFR data (SFR1, SFR2,SFR3,SFR4) from the last four minor frames.	Byte	0 to 255
845	Wideband Mode and Range for the first 16 minor frames.	Byte	Binary
846	Wideband Mode and Range for the second 16 minor frames.	Byte	Binary
847	Wideband Mode and Range for the third 16 minor frames.	Byte	Binary
848	Wideband Mode and Range for the last 16 minor frames.	Byte	Binary
849-864	Wideband AGC Data for each four minor frames.	Byte	0-255
865-880	Wideband DC Compressor Data for each four minor frames.	Byte	0-255

******

```
ISEE A ARCHIVE FORMAT DATA TYPES
STRUCTURE /ARCHIV/                          !#BYTES
   INTEGER      IYEAR                       !   4   YYDDD
   INTEGER      MDAY                        !   4   MILLISECONDS OF DAY
   INTEGER      MFRM                        !   4   FRAME TIME
   REAL         GSEX                        !   4   ORBIT POSITION X
   REAL         GSEY                        !   4    Y
   REAL         GSEZ                        !   4    Z
   REAL         SPER                        !   4   SEE SUN PERIOD
   REAL         SANG                        !   4   SUN ANGLE
   REAL         BPER                        !   4   MAGNETIC PERIOD
   REAL         BANG                        !   4   MAG ANGLE
   BYTE         OK(16)                      !  16   DATA QUALITY FLAGS
   BYTE         EFLGS(16)                   !  16   ESA FLAGS & ANTENNA
   BYTE         BFLGS(16)                   !  16   MSA FLAGS & ANTENNA
   BYTE         SFRSTP(16)                  !  16   SFR STEPS
   BYTE         RSCHN(4)                    !   4   RAPID SAMPLE CHANNEL
   BYTE         ESA(20,16)                  ! 320   ESA DATA
   BYTE         MSA(14,16)                  ! 224   MSA DATA
   BYTE         RS(128)                     ! 128   RAPID DATA
   BYTE         SFR(4,16)                   !  64   SFR DATA
   BYTE         WBFLGS(4)                   !   4   WB MODE AND RANGE
   BYTE         WBAGC(16)                   !  16   WB AGC
   BYTE         WBDC(16)                    !  16   WB DC COMP
END STRUCTURE                               !-------
RECORD /ARCHIV/ ISEEA                       ! 880
```

ISEE-1 ARCHIVE TAPE FORMAT

(SEE STRUCTURE DESCRIPTION ABOVE FOR DATA TYPE)

```
WORD    BYTE    COUNT   ITEM DESCRIPTION
----    ----    -----   ---- -----------
1       1       4       YEAR*1000 + DAY OF YEAR,
                           EG. 1/1/1980 = 80001
2       5       4       MILLISECONDS OF DAY
3       9       4       AVERAGE FRAME TIME, (MICROSECONDS)
4       13      4       GSEX, (METERS)
5       17      4       GSEY
6       21      4       GSEZ
7       25      4       SPIN PERIOD FROM SUN SENSOR, (SECONDS)
8       29      4       ANGLE BETWEEN EX ANTENNA AND S/C-SUN LINE
9       33      4       SPIN PERIOD FROM MAGNETOMETER
10      37      4       ANGLE BETWEEN BX AXIS AND MAGNETIC FIELD LINE
        41      16      DATA QUALITY FLAGS, PLUS BIT RATE & ATTITUDE QUALITY
                        MSB: 7 6 5 4 3 2 1 0 :LSB
                        DQ1       1 0            LOW RATE
                                  1 1            HIGH RATE
                        DQ2         X            SUN ATTITUDE FLAG
                        DQ3         X            MAGNETIC ATTITUDE FLAG
                        DQ1           1 1 0 0    DQ FOR MINOR FRAMES 0 - 3
                        ...
                        DQ16          1 1 0 0    DQ FOR MINOR FRAMES 60 - 63
        57      16      ESA GLITCHES AND ANTENNA
                        MSB: 7 6 5 4 3 2 1 0 :LSB
                                  | | | | X X    ANTENNA:
                                  | | | |        00 - EX OR EV
                                  | | | |        01 - ES
                                  | | | |        10 - EY OR EU
                                  | | | |        11 - BZ SEARCH COIL
                                  | | | X        SCAN PLATFORM (B)
                                  | | X          Z-MEAS (B)
                                  | X            MOZER (E)
                                  X              HARVEY (E)
        73      16      MSA GLITCHES AND ANTENNA
                        MSB: 7 6 5 4 3 2 1 0 :LSB
                                  | | | | X X    ANTENNA:
                                  | | | |        00 - EX
                                  | | | |        01 - BX SEARCH COIL
                                  | | | |        10 - BY SEARCG COIL
                                  | | | |        11 - BZ SEARCH COIL
                                  | | | X        SCAN PLATFORM (B)
                                  | | X          Z-MEAS (B)
                                  | X            MOZER (E)
                                  X              HARVEY (E)
        89      16      SFR STEPS
        105     4       RAPID SAMPLE CHANNELS
        109     20      ESA CHANNELS 0 - 19
                        .
                280     14 MORE SETS
                        .
        409     20      ESA CHANNELS 0 - 19
        429     14      MSA CHANNELS 0 - 13
                        .
                196     14 MORE SETS
                        .
        639     14      MSA CHANNELS 0 - 13
        653     128     RAPID SAMPLE DATA
        781     4       SFR CHANNELS 1 - 4
                        .
                56      14 MORE SETS
                        .
        841     4       SFR CHANNELS 1 - 4
        845     4       WB MODE AND RANGE
                        MSB: 7 6 5 4 3 2 1 0 :LSB
```

```
                                X X              MODE:
                                    X X X X      RANGE:
                                                 0 - BASEBAND
                                                 1 - 31.25KHZ
                                                 2 - 62.5 KHZ
                                                 3 - 12.5 KHZ
                                                 4 - 250. KHZ
                                                 5 - 500. KHZ
                                                 6 - 1.0  MHZ
                                                 7 - 2.0  MHZ
        849     16      WB AGC
        865     16      WB DC COMP
                -----
                880
```

****

HEX DUMP OF 1DUB62:[ISEEAPWI]ISEEAPWI.77

RECORD 1 880 BYTES

77195

(0)	EF2D0100	AEDD1F04	06F40000	EE4C6DBE	3FCD7B4C	964C455A	424121B0	25444AAA	00000000	00000000
(40)	30100000	00000000	00000C0C	0C0C0C0C	00000000	00000000	00000000	00000000	00000000	00000000
(80)	00000000	00000000	00000000	00000000	00000000	00000000	04040404	00000000	00000000	00000000
(120)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(160)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(200)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(240)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(280)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	78787878	79787878	78797878
(320)	78787978	78787879	78787878	78787878	78797878	78787878	78787879	78787878	78787878	78787878
(360)	78787878	78787878	78787878	78787878	78787878	78787878	78787878	78787878	78787878	78787878
(400)	78787878	78787878	78787878	78787878	78787878	78787878	78787878	00000000	00000000	00000000
(440)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(480)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(520)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(560)	00000000	00000000	83838384	83838384	83838383	83838383	83838383	83838383	83838383	83838383
(600)	83838383	83838383	83838383	83838383	83838383	83838383	83838383	83838383	83838383	83838383
(640)	83838383	83838383	83838383	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(680)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(720)	00000000	00000000	00000000	7E7C7E7C	7E7C7D7C	7E7C7D7C	7D7C7D7C	7D7C7D7C	7D7C7D7C	7D7C7D7C
(760)	7D7C7D7C	7D7C7D7C	7D7C7D7C	7D7C7C7C	7D7C7D7C	00000000	00000000	00000000	00000000	00000000
(800)	00000000	00000000	00000000	00000000	00000000	76767676	76767676	76767676	76767676	76767676
(840)	76757575	40404040	00000000	00000000	00008585	85858484	00000000	00000000	00008585	85858484

When verifying time spans, reverse the order of the bytes in word 1 to convert to a decimal number showing the date in the form YYDDD.

HEX DUMP OF 1DUB62:[ISEEAPWI]ISEEAPWI.77

RECORD 2397 880 BYTES

(0)	EF2D0100	35322605	1AD00300	6A4D2D82	78CD2128	064D0657	43410054	3D448074	48410058	904438B6
(40)	2C1C1C0C	0C0C0C0C	0C0C0C0C	0C0C0C0C	01010101	01010101	01010101	01010101	02020202	02020202
(80)	02020202	02020202	00010203	04050607	08090A0B	0C0D0E0F	0C0C0C0C	F0E7E2D5	9D865840	39363630
(120)	2213141B	191D1A1A	E1DDD9B3	917C4E44	3D393532	2414151B	1A1D1A1A	E1D9D8D2	B0935C45	3D383930
(160)	2316141B	1A1D1A1A	EBEAE2D7	A48D6144	3C3B3730	2113151C	191D1A1A	E3E1DBBB	8C744E40	403B372E
(200)	2415151B	191D1A1A	E4D7D3D3	AE916341	3C3A3531	2314151B	1A1D1A1A	EFE8E4D9	AF9C6844	403A3732
(240)	2215141B	191D1A1A	DDDEDCBC	95784647	3C383831	2214151B	191D1A1A	DDD5D0CC	B2946441	3E3B3530
(280)	2113141B	191D1A1A	F1E5E7DF	A89E6E46	3A393630	2214141B	1A1D1A1A	E0E0DBC3	9C864847	3D3A3730
(320)	2415151B	191D1A1A	DECECDC7	AC8A5D44	3A393631	2214151B	191D1A1A	EAE4E6D8	A49E6848	403B3830
(360)	2214151B	1A1D1A1A	E5DFD9CB	9A8B5943	403B3631	2415161B	1A1D1A1A	E2D0CDC8	9D835947	3D39382E
(400)	2114151B	1A1D1A1A	EDDEE4E2	A8A46F50	433B3733	2416151B	1A1D1A1A	32433124	13100C0A	0B0B0B0F
(440)	0A05344A	35202111	0E0E110C	0B0F0A05	35442623	0F0D0B0A	0A0A0B0E	0A05313E	302B2F11	0D0A0A0A
(480)	0B0F0A05	21242E55	46150E0B	0B0A0C0F	0A052251	3B50391D	0B0A0B0B	0C0F0A05	2A423631	6B611B0C
(520)	0C0A0B0F	0A052932	2626130F	0D0B0B0B	0B0E0A05	2E442C22	130E0D09	0A0B0B0F	0A05223B	2F2C0B10
(560)	0C090A0A	0B0E0A05	2D3D3341	1F0D0B09	0A0B0B0E	0A052C38	21110D0C	0B090B0C	0C0F0A05	2B33305B
(600)	47180D09	0A0B0C0F	0A052B46	455D2E12	0D0A0B0B	0C0F0A05	33412E34	2E120C0A	0B0B0B0E	0A052B39
(640)	444E3C1F	0C0A0A0A	0B0F0A05	23222220	22212323	23242323	22202020	2223201F	1A1A2123	22212022

(680)	22232323	24242223	23232220	23232320	19171E22	24222120	22222122	23222221	22212220	21212320
(720)	1D1B1C21	23222022	23232323	23252323	22242321	21222322	201C171E	22222121	23232222	23242322
(760)	23232323	22212323	20191D1E	23242222	22232323	353645A2	35354B94	363040A3	353343A2	34334998
(800)	34343F72	3331479A	33303E79	322E3777	312F4C97	302B3B89	302D348B	302C4D94	2E293D84	2C2A3478
(840)	2C284F91	40404040	948D9994	93939097	97969792	97979597	BDC0A1B7	BCA7AFB2	ADAAB3AD	B2B2A7C4

```
Dump of file $1$DUB62:[ISEEAPWI]ISEEAPWI.86196;1 on 15-APR-1994 15:45:42.48
File ID (86,1,0)   End of file block 7939 / Allocated 7952

Record number 4619 (0000120B), 880 (0370) bytes

 72C042BA 9C004142 104B4C03 36A8CC1C 486ECBEC 0003D019 04F1FCAF 000150B4 ¶P..¶ü¾..¶..ïEnH.ï¾6.LK.BA..ºBAr 000000
 00000000 00000000 0000030C 0C0C0C0C 0C0C0C0C 0C1C1C2C B0784424 A4004142 BA.¶$Dx°,........................ 000020
 17161514 13121110 00000000 03030303 03030303 03030303 00000000 00000000 ................................ 000040
 341D1866 22723131 24292818 11070A06 122A3A1E 040A0A0A 0000001C 1B1A1918 .............:*......()$11r"f..4 000060
 353B3350 250B0909 070C1727 331E1648 21785146 4938351D 100C0C0B 070C1319 .........58IF@x!H..3'......%P3;5 000080
 0B141918 341E1853 1A642B30 27463F2A 0D080A09 1729391A 331D1850 25794C4E NLy%P..3.9).....*?F'0+d.S..4.... 0000A0
 25823738 31362F21 120D0A0A 080E1C27 321D1544 2784262E 31343323 130A0E0F ....#341.&.'D..2'.......!/6187.% 0000C0
 150E0C0C 070C1519 341D1759 2071312B 171C1212 0E070A0A 18272F16 331E1C53 S..3./'.........+1q Y..4........ 0000E0
 341E174B 28843B3A 2F292A2B 18090A08 060C1A27 321D1547 23823637 2B242521 !%$+76.#G..2'.......+*)/:;.(K..4 000100
 31232024 160C0B08 0A0D1818 351C1655 1A692B27 26181713 0D080A09 1B252C14 .,%........&'+i.U..5........$ #1 000120
 1F212513 35202E65 1F733441 2B233224 11090A05 070C1D26 321D1550 2880373A :7.(P..2&.......$2#+A4s.e. 5.%!. 000140
 00000000 00000000 0000000A 080D171A 351C165D 237C272A 1B192312 0C0C0B0B .....#..*'|#]..5................ 000160
 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 ................................ 000180
 0E0F0E0E 110E060B 130E0D12 0E0E0D0E 0C0D130E 00000000 00000000 00000000 ................................ 0001A0
 101E0F0E 0C100D11 170F060B 120F1C21 0E100D0E 0E0E130F 060E1614 0F130E0E ................!............... 0001C0
 060B120D 0D130D0F 0E0E0C0D 110D060B 120E1014 110F0D0D 0B0D110E 060B1212 ................................ 0001E0
 0E10120E 060B110F 0F120E0E 0F0E0F10 110E060A 120E0D12 0E0F100F 0D0E120D ................................ 000200
 0E0E0E0D 0E0E140E 060B190E 0F130F0E 0D0D0D10 130F060B 130D0F19 0F0D0E0E ................................ 000220
 120E0D12 0E110F0E 1113150F 0610110E 0F110D0E 0E0E0C0F 130F080B 120E0E16 ................................ 000240
 00000000 00000000 00000000 00000000 00000000 00000000 00000B0F 150F060B ................................ 000260
 403C3B37 34333D40 2E37393D 3A3B3535 31312926 00000000 00000000 00000000 ............&)1155;:=97.@=347;<@ 000280
 29241C1D 252B2C33 36373637 37362C23 2930343C 3E3E3D41 40474645 42403A3D =:@BEFG@A=>><40)#,6776763,+%..$) 0002A0
 161E2327 26282524 221D1818 1A20282A 2E2D2926 231C1915 1A1F242B 2C2C2D2D --,,+$.....#&)-.*( ...."$%(&'#.. 0002C0
 00000000 00000000 00001D20 2221211F 1D1A1919 151A2122 24202326 23231918 ..###& $"!.......!!" ........... 0002E0
 1E2D3C3D 0A254029 0630311C 1440B11C 1221672E 00000000 00000000 00000000 .............g!..±@..10.)@%.=<-. 000300
 122B2630 0A2C1B1D 13332922 23231C2B 1A332028 1E242823 1A152430 0B2C2E26 &.,.0$..#($.( 3.+.##")3....,.0&+. 000320
 0000009A 9A959995 959A9396 97989C99 40404040 00000000 00000000 00000035 5............@@@@................ 000340
                                     00003845 3D3D4741 3C413943 435D3A37 7:]CC9A<AG==E8................. 000360
```