[redacted]

#296

IMP H & J

COUNT RATE ENCYCLOPEDIA DATA

72-073A-03B

73-078A-03B

[redacted]

73-078A-03B

IMP-H

ALL COUNT RATES ON ENCYCLOPEDIA TAPES

72-073A-03B

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY THERE WERE 47 7-TRACK, 800 BPI AND 9-TRACK 1600 BPI TAPES AND NOW THERE ARE 6 9-TRACK, 6250 BPI TAPES. THE TAPES WERE CREATED ON AN IBM 360 COMPUTER. THE DR TAPES ARE ON 3480 CARTRIDGES AND THE DS TAPES ARE 9-TRACK, 6250 BPI. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND THE TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR02813	DS02813	D17273	1	09/25/72 - 09/29/72
		D17383	2	09/29/72 - 10/05/72
		D17384	3	10/05/72 - 10/12/72
		D17385	4	10/12/72 - 10/17/72
		D17386	5	10/18/72 - 10/24/72
		D17387	6	10/24/72 - 10/30/72
		D17388	7	10/30/72 - 11/06/72
		D17389	8	11/06/72 - 11/12/72
		D17390	9	11/12/72 - 11/19/72
		D17391	10	11/19/72 - 11/24/72
		D17392	11	11/24/72 - 12/01/72
		D17393	12	12/01/72 - 12/07/72
DR02821	DS02821	D17394	1	12/07/72 - 12/14/72
		D17395	2	12/14/72 - 12/20/72
		D17396	3	12/20/72 - 12/26/72
		D17397	4	12/26/72 - 01/02/73
		D17398	5	01/02/73 - 01/08/73
		D17399	6	01/08/73 - 01/14/73
		D17400	7	01/14/73 - 01/20/73
		D17401	8	01/20/73 - 01/27/73
		D17402	9	01/27/73 - 02/02/73
		D17403	10	02/02/73 - 02/09/73
		D17404	11	02/09/73 - 02/15/73
DR02822	DS02822	D17405	1	02/15/73 - 02/22/73
		D17406	2	02/22/73 - 02/28/73
		D17407	3	02/28/73 - 03/02/73
		D17408	4	03/06/73 - 03/12/73
		D17409	5	03/12/73 - 03/19/73
		D17410	6	03/19/73 - 03/25/73
		D17411	7	03/25/73 - 03/31/73
		D17412	8	03/31/73 - 04/06/73
		D17413	9	04/06/73 - 04/13/73
		D24537	10	10/31/73 - 11/13/73

DR#	DS#	D#	FILES	TIME SPAN
DR02823	DS02823	D24538	1	11/13/73 - 11/25/73
		D24539	2	11/25/73 - 12/08/73
		D24540	3	12/08/73 - 12/21/73
		D24541	4	12/21/73 - 01/03/74
		D24542	5	01/03/74 - 01/15/74
		D24543	6	01/15/74 - 01/28/74
DR02824	DS02824	D24544	1	01/28/74 - 02/10/74
		D24545	2	02/10/74 - 02/23/74
		D24546	3	02/23/74 - 03/07/74
		D24547	4	03/07/74 - 03/20/74
		D24548	5	03/20/74 - 04/01/74
		D24549	6	04/01/74 - 04/14/74
DR02825	DS02825	D24550	1	04/14/74 - 04/27/74
		D24551	2	04/27/74 - 05/09/74

IMP-J

ALL COUNT RATES ON ENCYCLOPEDIA TAPES

73-078A-03B

This data set has been restored. There were originally 15 Binary 9-track, 1600 BPI tapes. There are 5 restored tapes. The DR tapes are 3480 cartridges and the DS tapes are 9-track, 6250 BPI. The tapes were created on an IBM 360 computer. The DR and DS numbers along with the corresponding D numbers and the time spans are as follows:

DR#	DS#	D#	FILES	TIME SPAN
DR03227	DS03227	D24649	1	10/30/73 - 11/06/73
		D24650	2	11/06/73 - 11/19/73
		D24651	3	11/19/73 - 12/02/73
DR03228	DS03228	D24652	1	12/02/73 - 12/15/73
		D24653	2	12/15/73 - 12/28/73
		D24654	3	12/28/73 - 01/11/74
DR03229	DS03229	D24655	1	01/11/74 - 01/23/74
		D24656	2	01/23/74 - 02/04/74
		D24657	3	02/04/74 - 02/17/74
DR03230	DS03230	D24658	1	02/17/74 - 03/01/74
		D24659	2	03/01/74 - 03/13/74
		D24660	3	03/13/74 - 03/26/74
DR03231	DS03231	D24661	1	03/26/74 - 04/07/74
		D24663	2	04/08/74 - 04/20/74
		D24662	3	04/20/74 - 05/02/74

REQ. AGENT	RAND NO.	ACQ. AGENT
RBK	RC2616	JHK
VJP	RC6381	

IMP H & J

COUNT RATE ENCYCLOPEDIA DATA

72-073A-03B

73-078A-03B

This data set consists of 47 IMP-H and 15 IMP-J Count Rate Encyclopedia tapes. These tapes were created on an IBM 360 computer. The first 32 IMP-H tapes are 800 BPI, 7-track, with 1 file, the rest of the tapes are 1600 BPI, 9-track, with 1 file. Each logical record consists of 360 32-bit words and each physical record consists of 3 logical records.

The time spans for the tapes are as follows:

IMP-H

D#	C#	TIME SPAN
D-17273	C-13612	09/25/72 - 09/29/72
D-17383	C-13613	09/29/72 - 10/05/72
D-17384	C-13614	10/05/72 - 10/12/72
D-17385	C-12615	10/12/72 - 10/17/72
D-17386	C-13616	10/18/72 - 10/24/72
D-17387	C-13617	10/24/72 - 10/30/72
D-17388	C-13618	10/30/72 - 11/06/72
D-17389	C-13619	11/06/72 - 11/12/72
D-17390	C-13620	11/12/72 - 11/19/72
D-17391	C-13621	11/19/72 - 11/24/72
D-17392	C-13622	11/24/72 - 12/01/72
D-17393	C-13623	12/01/72 - 12/07/72
D-17394	C-13624	12/07/72 - 12/14/72

D#	C#	TIME SPAN
D-17395	C-13625	12/14/72 - 12/02/72
D-17396	C-13626	12/20/73 - 12/26/72
D-17397	C-13627	12/26/72 - 1/02/73
D-17398	C-13628	1/02/73 - 1/08/73
D-17399	C-13629	1/08/73 - 1/14/73
D-17400	C-13630	1/14/73 - 1/20/73
D-17401	C-13631	1/20/73 - 1/27/73
D-17402	C-13632	1/27/73 - 3/03/73
D-17403	C-13633	2/02/73 - 2/09/73
D-17404	C-13634	2/09/73 - 2/15/73
D-17405	C-13635	2/15/73 - 2/22/73
D-17406	C-13636	2/22/73 - 2/28/73
D-17407	C-13637	2/28/73 - 3/06/73
D-17408	C-13638	3/06/73 - 3/12/73
D-17409	C-13639	3/12/73 - 3/19/73
D-17410	C-13640	3/19/73 - 3/25/73
D-17411	C-13641	3/25/73 - 3/31/73
D-17412	C-13642	3/31/73 - 4/06/73
D-24537	C-18100	10/31/73 - 11/13/73
D-24538	C-18101	11/13/73 - 11/25/73
D-24539	C-18102	11/25/73 - 12/08/73
D-24540	C-18103	12/08/73 - 12/21/73
D-24541	C-18104	12/21/73 - 1/03/74
D-24542	C-18105	1/03/74 - 1/15/74
D-24543	C-18106	1/15/74 - 1/28/74
D-24544	C-18107	1/28/74 - 2/10/74
D-24545	C-18108	2/10/74 - 2/23/74

D#	C#	TIME SPAN
D-24546	C-18109	2/23/74 - 3/07/74
D-24547	C-18110	3/07/74 - 3/20/74
D-24548	C-18111	3/20/74 - 4/01/74
D-24549	C-18112	4/01/74 - 4/14/74
D-24550	C-18113	4/14/74 - 4/27/74
D-24551	C-18114	4/27/74 - 5/09/74

IMP-J

D#	C#	TIME SPAN
D-24649	C-18177	10/30/73 - 11/06/73
D-24650	C-18178	11/06/73 - 11/19/73
D-24651	C-18179	11/19/73 - 12/02/73
D-24652	C-18180	12/02/73 - 12/15/73
D-24653	C-18181	12/15/73 - 12/28/73
D-24654	C-18182	12/28/73 - 1/11/74
D-24655	C-18183	1/11/74 - 1/23/74
D-24656	C-18184	1/23/74 - 2/04/74
D-24657	C-18185	2/04/74 - 2/17/74
D-24658	C-18186	2/17/74 - 3/01/74
D-25659	C-18187	3/01/74 - 3/13/74
D-24660	C-18188	3/13/74 - 3/26/74
D-24661	C-18189	3/26/74 - 4/07/74
D-24662	C-18190	4/20/74 - 5/02/74
D-24663	C-18191	4/08/74 - 4/20/74

UNIVERSITY OF MARYLAND
IMP-H MAE EXPERIMENT
ENCYCLOPEDIA TAPE FORMAT.

REVISION 3

JUNE 11, 1973

The first step in IMP-H data processing consists of the generation of encyclopedia tapes from the experimenter decom tapes received from the Information Processing Division (IPD) at Goddard. The following describes the processing involved in this step:

Decom tapes are multi-filed tapes, with each file containing data from one analog tape recorded at one tracking station (approximately 2 hours of data). Since two analog tapes may be recording simultaneously and since two stations may be receiving a signal simultaneously, these files may overlap in time. This overlap will be eliminated by comparing two albums corresponding to the same time period and choosing the one with the best data quality.

PHA ID's lag the corresponding PHA channel numbers by one sequence. As each album is read from the decom tape, the ID's in fill sequences are padded as all 1 bits

(-1 in an IBM 360 halfword). This corresponds to a P2a" · B event in PHA 1 and a P3a' · B event in PHA 2, both with an Optical Aspect sector of 7; and Sun Gate and Calibrate on. It is thus highly unlikely that this occurs naturally in the data. The ID's are then shifted backward one sequence in Time so that they correspond with the correct PHA channel information, with the ID for the last sequence of the album coming from the first sequence of the following album. If the next consecutive album in time is not present, the last ID is padded.

Orbit data from the decom tape album record corresponds to the nearest minute preceding the start time of the album. Only the orbit data that is expected to be used in later processing is included in the encyclopedia tape record.

NOTE: The McIlwain parameter, L (word 24) and the Magnetic Field Strength, B

(word 25) were included for use only if the spacecraft failed to achieve the desired circular orbit. These words contain zero on the tape.

The 8 bit analog performance parameters from the decom tape are converted to floating-point volts.

All readouts (except digital performance parameters) pertaining to fill data sequences are padded with all 1 bits, thus providing a means of detecting fill data on the encyclopedia tape which is more convenient than testing the data quality flags.

Data is organized according to the relative positions of the earth, sun, and spacecraft. Data corresponding to spacecraft position on the anti-solar portion of the orbit (x-coordinate of the spacecraft position in Geocentric

Solar Ecliptic Coordinates negative) will be put on separate tapes from data corresponding to spacecraft position on the solar portion (x-coordinate positive). Each tape will then contain roughly 6 to 7 days of data.

Encyclopedia tapes are single-filed, 7 track, 800 BPI tapes, with logical records of 360 32-bit words (1440 bytes) and physical records consisting of 3 logical records (4320 bytes). All data are binary integers in IBM 360 format except for the following:

- Orbit/Attitude data - words 14-30;
- Analog Performance Parameters - words 36-43;
- Optical Aspect Data - words 50-53, 129-132, 208-211, and 287-290.

These will be floating-point numbers in IBM 360 format.

Explanatory Notes

Word	Comment
2	S/C clock at start of album. Page number (bits $2^5 2^4$), snapshot number (bits $2^3 2^2$), and sequence number (bits $2^1 2^0$) are zero.
7	First halfword - Production Flag. 0 = Quicklook, 1 = Production.
33	DP # $a_2 - 8$ Analog Transmitter ON/OFF. One byte for each page. Each byte is of the form $D_1 D_2 D_3 D_4 D_5 D_6 D_7 D_8$ where $D_1 D_2$ = two redundant readouts for s.s. 0; $D_3 D_4$ = " " " " " 1; $D_5 D_6$ = " " " " " 2; $D_7 D_8$ = " " " " " 3 (s.s. = snapshot).

WORD	COMMENT
34	DP # $a_3 - 19$ OA /TM SLAVE One byte for each page. Each byte is of the form $0000\ D_1\ D_2\ D_3\ D_4$ where $D_1 D_2$ = 2 redundant readouts for s.s. 1 $D_3 D_4$ = " " " " s.s. 3 If a 2-bit readout = 11 (and sequence 1 of the corresponding snapshot does not contain fill data as determined by the data quality flags), then sectoring is slaved to the telemetry. If the readout = 00 (and sequence 1 is not fill), then sectoring is slaved to the optical aspect sensor.

WORD	COMMENT
44	DP # $a_3 - 18$ ULET ON/OFF One byte for each page. Each byte is of the form $0000\,D_1D_2D_3D_4$ where D_1D_2 = 2 redundant readouts for S.S. 1 D_3D_4 = 2 redundant readouts for S.S. 3 (Readout occurs in sequence 1 of the snapshot
45,124, 203,282	Time Quality Flags One byte for each snapshot. Each byte contains four 2-bit integers - one for each of the four sequences in the snapshot: $\underbrace{D_1D_2}_{\text{seq. 0}}\,\underbrace{D_3D_4}_{\text{seq 1}}\,\underbrace{D_5D_6}_{\text{seq. 2}}\,\underbrace{D_7D_8}_{\text{seq. 3}}$ The meaning of these flags is as follows:

Value	Meaning
0	Analog time unverified.
1	Analog time verified by S/C clock.
2	Analog time in error - S/C clock used.
3	Time put with fill data - computed

WORD	COMMENT
46 – 49, 125 – 128, 204 – 207, 283 – 286	Data Quality Flags One byte for each sequence, Each byte contains four 2-bit integers – one for each quarter sequence. The meaning of these flags is as follows:

Value	Data Quality
0	Excellent (Prob. of error $< 10^{-}$
1	Good (Prob. of error $< 10^{-}$
2	Fill
3	Undetermined

Since padding is done on a whole sequence basis, the byte for a fill data sequen will contain 10101010.

98,99, 177,178, 256,257, 335,336	A1/A2 (R4) First and last readouts of album (words 98 and 336) are A2. Others (99,177,178,256,257 and 335) are A1.

ENCYCLOPEDIA TAPE - DATA RECORD FORMAT

REVISION 3 - June 11, 1973

WORD	HALF WORD	FULL WORD	SEQ.	PAGE	ITEM
1		*	0	0	Universal Time (Tenths of sec. of year)
2		*	0	0	Spacecraft clock
3		*	0	0	Pseudo-sequence counter
4	*		0	0	Year
	*		0	0	Day of year
5	*		0	0	Month
	*		0	0	Day of month
6		*	0	0	Milliseconds of day
7	*				Production Flag
	*				Analog Tape File Number
8	*				Decom File Number
	*				Spare
9	*				Perigee count
	*				Transmission Rate (400 or 1600)
10	*				Station number
	*				Analog Tape Number
11		*			Spare
12	*				Year — Time of orbit Data
	*				Day of Year — Time of orbit Data
13		*			Milliseconds of Day — Time of orbit Data

WORD	HALF WORD	FULL WORD	SEQ.	PAGE	ITEM
14		*			Longitude (deg.) } S/C Position in Geomagnetic Coordinates
15		*			Latitude (deg.) }
16		*			r, radial distance from s/c to center of earth (km.)
17		*			GSE_x } S/C Position in Geocentric Solar Ecliptic Coordinates
18		*			GSE_y
19		*			GSE_z
20		*			GSE_x } Moon Position in Geocentric Solar Ecliptic Coordinates
21		*			GSE_y
22		*			GSE_z
23		*			Distance from the s/c to the moon (km.)
24		*			L - McIlwain Parameter (Earth radii)
25		*			B - Magnetic Field Strength (gamma)
26		*			Satellite-earth-sun angle, L_{sep} (deg.)
27		*			Satellite-earth-moon angle, (deg)
28		*			Spin Period (milliseconds)
29		*			Right Ascension } Spin Vector in Celestial Inertial (deg)
30		*			Declination }
31	*				Type of data item indicator
	*				Day of next perigee
32		*			Milliseconds of Day of next perigee

WORD	HALF WORD	FULL WORD	SEQ.	PAGE	ITEM
33		*			DP # a_2 - 8 ANALOG XMTR ON/OFF
				0	BYTE 1 = PAGE 0
				1	" 2 = " 1
				2	" 3 = " 2
				3	" 4 = " 3
34		*			DP# a_3 - 19 OA / TM SLAVE
				0	BYTE 1 = PAGE 0
				1	" 2 = " 1
				2	" 3 = " 2
				3	" 4 = " 3
35		*			Average Sequence Time (seconds)
36		*		0	AP # 15 - H.V. Monitor (volts)
37		*		1	" " " "
38		*		2	" " " "
39		*		3	" " " "
40		*		1	AP # 42 - Thermistor (volts)
41		*		3	" " "
42		*		1	AP # 46 - Detector Bias (volts)
43		*		3	" " " "
44		*			DP# a_3 - 18 ULET ON/OFF
				0	BYTE 1 = PAGE 0
				1	" 2 = " 1
				2	" 3 = " 2
				3	" 4 = " 3

WORD	HALF WORD	FULL WORD	SEQ.	PAGE	ITEM
45		*		0	Time Quality Flags:
			0-3		Byte 1 = Sequences 0-3
			4-7		" 2 = " 4-7
			8-11		" 3 = " 8-11
			12-15		" 4 = " 12-15
46		*		0	Data Quality Flags: (Each quarter seq.)
			0		Byte 1 = Sequence 0
			1		" 2 = " 1
			2		" 3 = " 2
			3		" 4 = " 3
47		*	4-7	0	Data Quality Flags: Sequences 4-7
48		*	8-11	0	" " " " 8-11
49		*	12-15	0	" " " " 12-15
50		*		0	Sun Time (Floating Pt. - Seconds)
51		*		0	Earth Width " " "
52		*		0	Earth Time " " "
53		*		0	Spin Period " " "
54		*	0	0	P2b·$\overline{A1}$ (S1) Sector 1 (counts)
55		*	"	"	" " " 2 "
56		*	"	"	" " " 3 "
57		*	"	"	" " " 4 "

WORD	HALF WORD	FULL WORD	SEQ	PAGE	ITEM
58		*	0	0	N2b (S2) Sector 1 (counts)
59		*	"	"	" " " 2 "
60		*	"	"	" " " 3 "
61		*	"	"	" " " 4 "
62		*	4	0	P2a'' · $\overline{A1}$ (S3) Sector 1 (counts)
63		*	"	"	" " " 2 "
64		*	"	"	" " " 3 "
65		*	"	"	" " " 4 "
66		*	4	0	P3b · $\overline{B}$ · $\overline{A1}$ (S4) Sector 1 (counts)
67		*	"	"	" " " 2 "
68		*	"	"	" " " 3 "
69		*	"	"	" " " 4 "
70		*	8	0	P3a' · $\overline{B}$ · $\overline{A1}$ (S5) Sector 1 (counts)
71		*	"	"	" " " 2 "
72		*	"	"	" " " 3 "
73		*	"	"	" " " 4 "
74		*	8	0	D1 · D2 · $\overline{A2}$ (S6) Sector 1 (counts)
75		*	"	"	" " " 2 "
76		*	"	"	" " " 3 "
77		*	"	"	" " " 4 "
78		*	12	0	P2a' · $\overline{A1}$ (S7) Sector 1 (counts)
79		*	"	"	" " " 2 "
80		*	"	"	" " " 3 "
81		*	"	"	" " " 4 "

WORD	HALF WORD	FULL WORD	SEQ	PAGE	ITEM
82		*	12	0	N3b·B·$\overline{A1}$ (S8) Sector 1 (counts)
83		*	"	"	" " " 2 "
84		*	"	"	" " " 3 "
85		*	"	"	" " " 4 "
86		*	1	0	D1·$\overline{D2}$·$\overline{A2}$ (R1) (Counts)
87		*	5	"	" " "
88		*	9	"	" " "
89		*	13	"	" " "
90		*	3	0	P1·$\overline{A1}$ (R2) (counts)
91		*	7	"	" " "
92		*	11	"	" " "
93		*	15	"	" " "
94		*	3	0	N1·$\overline{A1}$ (R3) (Counts)
95		*	7	"	" " "
96		*	11	"	" " "
97		*	15	"	" " "
98		*	4	0	A1/A2 (R4) (Counts)
99		*	12	"	" " "
100	*		0	0	PHA 1 Channel
	*		1	"	" "
101	*		2	"	" "
	*		3	"	" "

WORD	HALF WORD	FULL WORD	SEQ.	PAGE	ITEM
102	*		4	0	PHA 1 Channel
	*		5	"	" "
103	*		6	"	" "
	*		7	"	" "
104	*		8	"	" "
	*		9	"	" "
105	*		10	"	" "
	*		11	"	" "
106	*		12	"	" "
	*		13	"	" "
107	*		14	"	" "
	*		15	"	" "
108	*		0	0	PHA 2 Channel
	*		1	"	" "
109	*		2	"	" "
	*		3	"	" "
110	*		4	"	" "
	*		5	"	" "
111	*		6	"	" "
	*		7	"	" "
112	*		8	"	" "
	*		9	"	" "

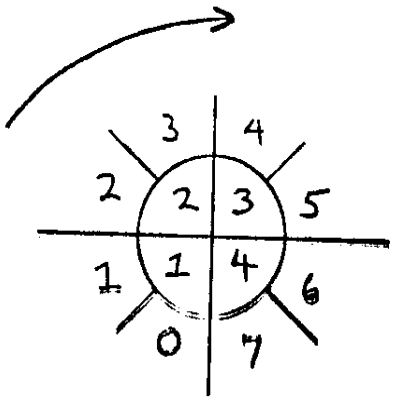
WORD	HALF WORD	FULL WORD	SEQ.	PAGE	ITEM
113	*		10	0	PHA 2 Channel
	*		11	"	" "
114	*		12	"	" "
	*		13	"	" "
115	*		14	"	" "
	*		15	"	" "
116	*		0	0	PHA ID's
	*		1	"	"
117	*		2	"	"
	*		3	"	"
118	*		4	"	"
	*		5	"	"
119	*		6	"	"
	*		7	"	"
120	*		8	"	"
	*		9	"	"
121	*		10	"	"
	*		11	"	"
122	*		12	"	"
	*		13	"	"
123	*		14	"	"
	*		15	"	"

WORD	HALF WORD	FULL WORD	SEQ.	PAGE	ITEM
124-202				1	Same as words 45-123 for Page:
203-281				2	Same as words 45-123 for Page
282-360				3	Same as words 45-123 for Page

IMP-H SECTORING (MAE)

LOOKING DOWN ON NORTH ECLIPTIC POLE.

ARROWS INDICATE DIRECTION OF ROTATION.

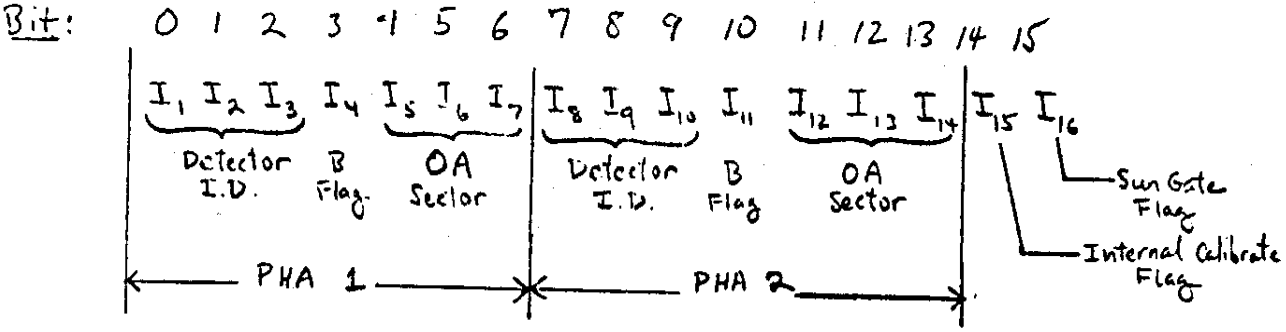


INSIDE CIRCLE = SECTORED RATE SECTORS

OUTSIDE CIRCLE = ONE'S COMPLEMENT OF SECTOR NUMBERS FROM PHA ID.

PHA ID FORMAT (IMP-H)

The 16-bit PHA ID's contain the following information:



EVENT TYPES VS DETECTOR ID'S AND B FLAG

$I_1 I_2 I_3$		PHA 1 EVENT TYPE	$I_8 I_9 I_{10}$		PHA 2 EVENT TYPE
0 0 0	(0)	No event	0 0 0	(0)	No event
0 0 1	(1)	N1	0 0 1	(1)	P1
0 1 0	(2)	N2b	0 1 0	(2)	P2b
0 1 1	(3)	N2a	0 1 1	(3)	P3a
1 0 0	(4)	P2a	1 0 0	(4)	N3a
1 0 1	(5)	P3b	1 0 1	(5)	N3b
1 1 0	(6)	D1	1 1 0	(6)	D2
1 1 1	(7)	P2a"	1 1 1	(7)	P3a'

If the B Flag is on for a particular analyzer, the event type is found by appending "B". For example, $I_1 I_2 I_3 I_4 = 0101$ indicates a N2b·B (2B) event. [Exception: If $I_1 I_2 I_3 I_4 = 1101$, a D1·D2 event is signalled. If $I_8 I_9 I_{10} I_{11} \neq 1100$ (D2), the event should be considered invalid.]

The true OA sector in which an event occurred is given by taking the one's complement of the OA sector bits for that analyzer.

REC 1, LENGTH 4320

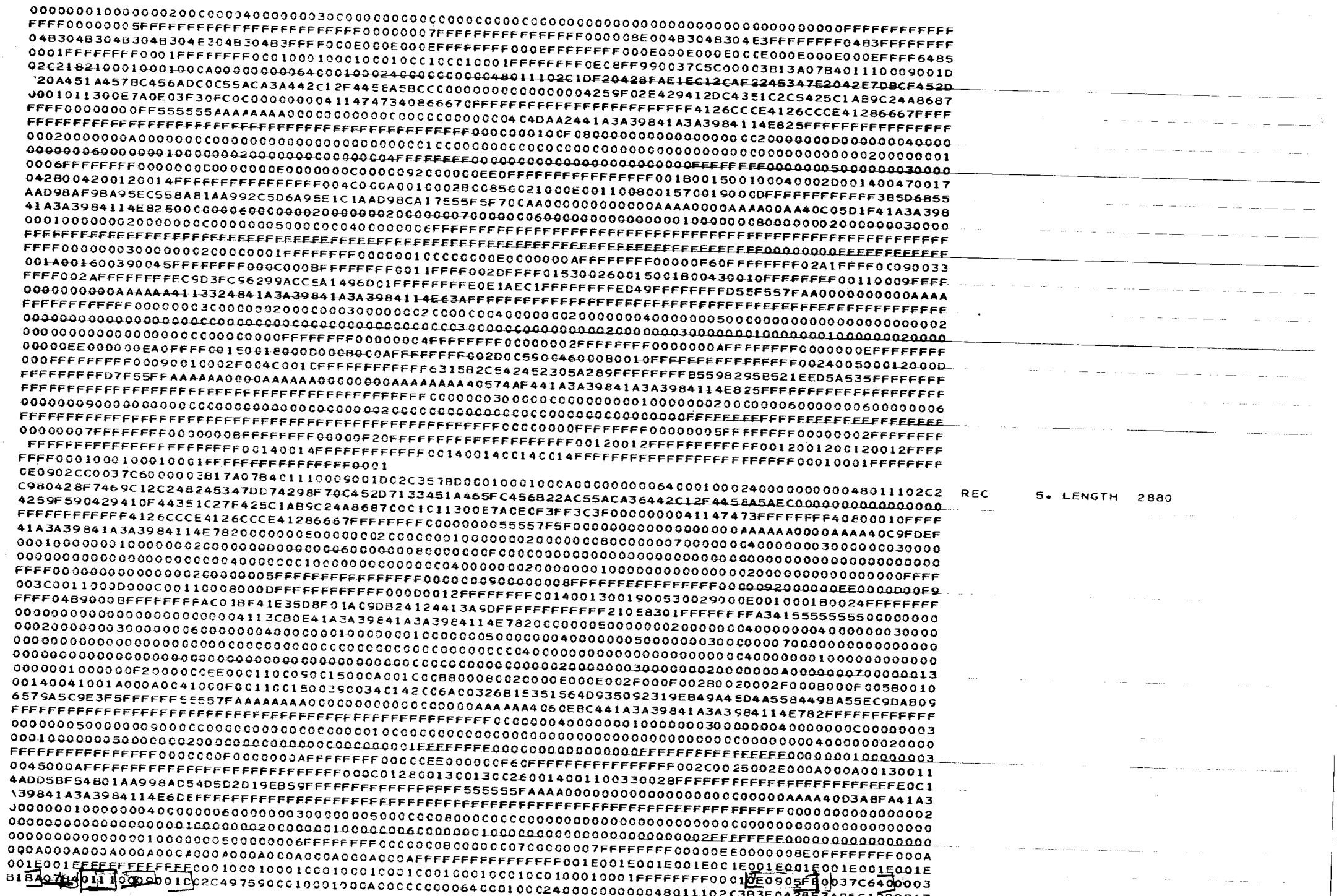
IMP-H

COUNT RATE ENCYCLOPEDIA

D-17273

09/25/72

09/29/72



T-5245
IMP - J
10/30/73 - 11/6/73
D 24649

0F952F87	0004AFC0	00000005	0735012F	000A001E	03063BC2	00010001	00010001	00010540	00100018
0001FFFF	00049012F	03059EE0	42430305	413005C9	45287877	45212519	4512A960	44DDB33E	453F54E3
454BA202	C36A67C8	454208F5	00000000	00000000	42233A40	421CA482	00000000	424E3333	C247F851
00010130	02BA8C20	FFFFFFFF	00000000	411473D5	BF6A7F00	BF5A7F00	BF6A7F00	BF5A7F00	412ACCCD
412ACCCD	BF6A7F00	BF6A7F00	00000000	55555555	00003000	00000000	00000000	00000300	40EFC1E4
41A39EAD	41A39EAD	4129DD19	00000000	00000000	00003000	00300000	00000000	00000300	00000000
00000000	00000000	00000000	00000000	00000000	00003000	00300000	00000000	00000300	00000000
00000000	00000000	00000000	00000000	00000000	00003000	00300000	00000000	00000300	00000000
00000000	00000000	00000000	00000000	00000000	00003000	00300000	00000000	00000300	00000000
00000000	00000000	00000000	00000000	00000000	00003000	00300000	00000000	00000300	00000000
00010001	00010001	00010001	00010001	00010001	00013001	00310001	00010001	00010001	00010001
00010001	00010001	00010001	00010001	00010001	00013001	00310001	00010001	00010001	00010001
87E187E1	87E187E1	87E187E1	55555555	00000000	87E137E1	87E137E1	87E187E1	87E187E1	87E187E1
41A39EAD	4129DB2E	00000000	00000000	00000000	00003000	00300000	00000000	4116A315	41A39EAD
00000000	00000000	00000000	00000000	00000000	00003000	00300000	00000000	00000300	00000000
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00000000	00000000	00000000	00000000	00000000	00003000	00300000	00000000	00000300	00000000
00000000	00000000	00000000	00000000	00000000	00003000	00300000	00000000	00000300	00000000
00010001	00010001	00010001	00010001	00010001	00013001	00310001	00010001	00010001	00010001
87E187E1	87E187E1	55555555	00000000	00000000	87E137E1	87E137E1	87E187E1	87E187E1	87E187E1
4129DD19	00000000	00000000	00000000	00000000	00003000	00300000	00000000	411E477D	41A39EAD
00000000	00000000	00000000	00000000	00000000	00003000	00300000	00000000	00000300	00000000
00000000	00000000	00000000	00000000	00000000	00003000	00300000	00000000	00000300	00000000
00000000	00000000	00000000	00000000	00000000	00003000	00300000	00000000	00000300	00000000
00000000	00000000	00000000	00000000	00000000	00003000	00300000	00000000	00000300	00000000
00010001	00010001	00010001	00010001	00010001	00013001	00310001	00010001	00010001	00010001
00010001	00010001	87E187E1	87E187E1	87E187E1	87E137E1	87E137E1	87E187E1	87E187E1	87E187E1
87E187E1	55555555	00000000	00000000	00000000	00003000	4125EC89	41A39EAD	41A39E4D	4129DD8D
00000000	00000000	00000000	00000000	00000000	00003000	00300000	00000000	00000300	00000000
00000000	00000000	00000000	00000000	00000000	00003000	00300000	00000000	00000300	00000000
00000000	00000000	00000000	00000000	00000000	00003000	00300000	00000000	00000300	00000000
00000000	00000000	00000000	00000000	00000000	00003000	00300000	00000000	00000300	00000000
00010001	00010001	00010001	00010001	00010001	00013001	00310001	00010001	00010001	00010001
00010001	00010001	87E187E1	87E187E1	87E187E1	87E137E1	87E137E1	87E187E1	87E187E1	87E187E1
0F953289	00048000	00000045	0735012F	000A001E	03071854	00313001	00010001	00010540	00100018
0001FFFF	00049012F	03068940	42420D4F	4130F27F	45287A03	45212058	4512AC53	44DDE23D	453F551F
454BA1CF	C36A67C8	45420934	00000000	00000000	42231308	421CA2FD	43A3BF9C	424E3333	C247F851
00010130	02BA8C20	FFFFFFFF	00000000	411473D5	BF6A7F00	BF5A7F00	BF6A7F00	BF6A7F00	412ACCCD
412ACCCD	BF6A7F00	BF6A7F00	00000000	55555555	00003000	00300000	00000000	00000300	40386468
41A39EAD	41A39EAD	4129DD19	00000000	00000000	00003000	00300000	00000000	00000300	00000000
00000000	00000000	00000000	00000000	00000000	00003000	00300000	00000000	00000300	00000000
00000000	00000000	00000000	00000000	00000000	00003000	00300000	00000000	00000300	00000000
00000000	00000000	00000000	00000000	00000000	00003000	00300000	00000000	00000300	00000000
00000000	00000000	00000000	00000000	00000000	00003000	00300000	00000000	00000300	00000000
00010001	00010001	00010001	00010001	00010001	00013001	00310001	00010001	00010001	00010001
87E187E1	87E187E1	87E187E1	55555555	00000000	00003000	00300000	00000000	40B5C154	41A39EAD
416C7B45	4129DD19	00000000	00000000	00000000	00003000	00300000	00000000	00000300	00000000
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00010001	00010001	00010001	00010001	00010001	00013001	00310001	00010001	00010001	00010001
87E187E1	87E187E1	87E187E1	55555555	00000000	00003000	00300000	00000000	411301C5	41A39EAD
4129DD19	00000000	00000000	00000000	00000000	00003000	00300000	00000000	00000300	00000000
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00000000	00000000	00000000	00000000	00000000	00003000	00300000	00000000	00000300	00000000
00000000	00000000	00000000	00000000	00000000	00003000	00300000	00000000	00000300	00000000
00010001	00010001	00010001	00010001	00010001	00013001	00310001	00010001	00010001	00010001
00010001	00010001	87E187E1	87E187E1	87E187E1	87E137E1	87E187E1	87E187E1	87E187E1	87E187E1
87E187E1	55555555	00000000	00000000	00000000	00003000	411AA775	41A39EAD	41A39EAD	41290D19
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00000000	00000000	00000000	00000000	00000000	00003000	00300000	00000000	00000300	00000000
00010001	00010001	00010001	00010001	00010001	00013001	00310001	00010001	00010001	00010001
00010001	00010001	87E187E1	87E187E1	87E187E1	87E137E1	87E187E1	87E187E1	87E187E1	87E187E1
0F9535E8	00048040	00000085	0785012F	000A001E	03083785	00313001	00010001	00010540	00100018
0001FFFF	00049012F	03085E00	42426035	4132C32A	45287710	452116D5	4512B239	44D2451D	453F30AD
454BC14D	C3660740	45421369	00000000	00000000	42232149	421CB1B2	43A3BF9C	424E3333	C247F851
00010130	02BA8C20	FFFFFFFF	00000000	411473D5	BF6A7F00	BF5A7F00	BF6A7F00	BF5A7F00	412ACCCD
412ACCCD	BF6A7F00	BF6A7F00	00000000	55555555	00003000	00300000	00000000	00000300	41224025
41A39EAD	41A39EAD	4129DD19	00000000	00000000	00003000	00300000	00000000	00000300	00000000
00000000	00000000	00000000	00000000	00000000	00003000	00300000	00000000	00000300	00000000
00000000	00000000	00000000	00000000	00000000	00003000	00300000	00000000	00000300	00000000

00000000	00000000	00000001	00000000	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	00000000	00000000	00001000	00000000	00000000	00000000	00000000	00000000
00090009	00090009	00090009	00090009	002C002C	002C002C	002C002C	002C002C	002C002C	002C002C
002C002C	002C002C	A2000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000

RECORD 2454 OF FILE 1
LENGTH = 2880 BYTES

0FF5219B	000C3140	00078185	07350136	00080006	04741AC8	00010001	002C0000	00020640	00150036
00000001	00490136	0473D4E0	C2A19A8C	C222CDD0	45480238	C2505DD0	C5358647	C52FF5DE	C53DD14D
4545F45B	44865F3C	45954AE8	00000000	00000000	425A04CC	42300935	43A38F87	424E3333	C247F851
0001013C	032C12A0	FFFFFFFF	00000000	41147308	41345667	4134CCCD	4134CCCD	4140CCCD	41246667
41246667	4128999A	4128999A	0F0F0F0F	55555555	00000000	00000000	00000000	00000000	41295958
41A39E59	4151CF2C	4129DD04	00000000	00000000	00000001	00100000	00000000	00000000	00000000
00000001	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	00000001	00000000	00000000	00000000	00000000	00000000	00000000	00000001
00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
00090009	00090065	00650055	00160016	00160016	00160015	0015001D	002C002C	002C0016	00220022
00220023	00230082	00820082	00820082	00090009	60000000	00100094	00D0EA00	0000011C	64000040
00000000	00000000	00486E00	55555555	00000000	00000000	00000000	00000000	40723497	41A39E59
41A39E59	4129DD04	00000000	00000001	00000000	00000000	00100000	00000000	00000000	00000000
00000000	00000000	00000001	00000000	00000000	00000001	00000001	00000001	00000000	00000000
00000000	00000000	00000000	00000000	00000000	00000000	00100000	00000000	00000000	00000000
00000000	00000000	00000001	00000001	00000000	00000003	00000000	00000000	00000000	00000000
001B000F	000F000F	000F0008	00080024	00590020	000C000C	00090009	000F0009	00060006	00300007
00650065	001C001C	001C001C	001C001C	24000000	E48C3298	EA388C00	004C0104	01D48E30	008C6000
E800E000	88000000	55555555	00000000	00000000	00000000	00100000	40E9D7F0	41A39E59	41A39E59
412A09C1	00000000	00000001	00000000	00000000	00000000	00100000	00000000	00000000	00000001
00000000	00000001	00000002	00000003	00000002	00000001	00100000	00000000	00000000	00000000
00000000	00800000	00000000	00000000	00000000	00000003	00100003	00000001	00000302	00000001
00000001	00000001	00000000	00000001	00000000	00000001	00100001	00000000	00000000	00000000
00000000	00000001	00000001	00000000	00000000	00000378	00100398	000C000C	00060006	00110011
00110011	000D0008	0008000A	000A000A	000D000D	00050005	000A0015	00150005	00050012	00BE00BE
00BE0009	00090009	00090009	010C0000	6D18005C	EA001DC4	00100108	AE508600	00004430	00000000
A0000000	55555555	00000000	00000000	00000000	00000000	00100000	41165F44	41A39E59	41A39E59
00000000	00000000	00000000	00000001	00000000	00000000	00100000	00000000	00000001	4129DD04
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00000000	00000000	00000002	00000000	00000002	00000001	00100003	00000000	00000302	00000001
00000000	00000001	00000000	00000000	00000002	00000001	00100000	00000000	00000000	00000000
000C000C	000C000C	000C000C	00000378	00000920	00100000	000C000C	000C000C	000C000C	000C000C
00090009	00090009	A0000000	00000000	00090009	00090009	00090009	00090009	00090009	00090009
0FF524CD	000C3180	00078105	07350136	00080006	04753459	00010000	00000000	00000000	00000000
00000002	00490136	04748F40	C2A1DEA2	C222C587	45480214	C22A1120	C5358638	C52FF513	C53DD115
4545F48C	44865F3C	45954C44	00000000	00000000	425A3217	42300BA0	43A38F87	424E3333	C247F851
0001013C	032C12A0	FFFFFFFF	00000000	41147308	414C0000	414C0000	414C0000	4126CCCE	41246667
41246667	4128999A	4128999A	0F0F0F0F	55555555	00000000	00000000	00000000	00000000	411E1637
41A39E59	41839E8E	4129AC71	00000000	00000000	00000000	00000000	00000000	00000000	00000000
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00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
00000001	00000000	00000001	00000001	00000000	00000000	00100000	00000000	00000000	00000001
00000000	00000000	00000000	00000002	00000002	00000000	00100000	00000000	00000000	00000000
00250011	001C001C	001C001C	000C000C	000C000C	002D002D	00300100	00000000	00000000	00250025
00760076	00760076	00760027	004A004A	004A0008	EE003000	0030E64C	629C0000	01040000	80000000
00000110	E6880000	E200EE54	55555555	00000000	00000000	00000000	00000000	4125883F	41A39E59
415ICF2C	4129DD04	00000000	00000000	00000000	00000001	00100000	00000000	00000000	00000000
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00000000	00000000	00000000	00000000	00000000	00000000	00000001	00000000	00000000	00000002
00000000	00000000	00000001	00000000	00000001	00003000	00100002	00000001	00000000	00000000
000C000C	00130023	0000001A	0014001I	00110004	000A300E	00300C8	00C800C8	00C80033	00250025
00250025	00250025	00250008	000B0008	00300054	84000000	00306F14	E4C4AE00	E400A300	00006E00
00008A94	0000E000	55555555	00000000	00000000	00000000	00100000	4038S2E2	41A39E59	41A39E59
4129DD04	00000003	00000000	00000000	00000001	00003001	00300000	00000000	00000000	00000000
00000001	00000001	00000000	00000002	00000001	00003000	00100001	00000000	00000000	00000000
00000001	00000000	00000000	00000000	00000000	00003001	00100001	00000003	00000001	00000000
00000001	00000000	00000000	00000001	00000000	00003001	00100008	00000000	00000000	00000000
00000000	00000002	00000000	00000000	00000001	00100FE0	00100FE0	000E0008	00080008	00080008
00080008	00230023	00230011	00110011	000D000D	00003003	00300C8	00C800C8	00C80033	00230023
00100035	000D000D	000D0003	008C8200	00880040	00003000	00100000	AAD00000	0090E058	0048E200
AA000000	55555555	00000000	00000000	00000000	00003000	40AF88E0	41A39E59	41A39E59	412A0CF3
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00000001	00000002	00000003	00000003	00000000	00003000	00100000	00000000	00000000	00000000