Main Header for Matrix Data Files

D. J.	Maniakla Nama	T	0
0 0	Variable Name MAGIC_NUMBER	Type . Character*14	Comment UNIX file type identification number (NOT PART OF THE MATRIX HEADER DATA)
14 46 48	ORIGINAL_FILE_NAME SW_VERSION	.Integer*2	. Scan file's creation name
50			Enumerated type (00=unknown, 01=Sinogram, 02=Image-16, 03=Attenuation Correction, 04=Normalization, 05=Polar Map, 06=Volume 8, 07=Volume 16, 08=Projection 8, 09=Projection 16, 10=Image 8, 11=3D Sinogram 16, 12=3D Sinogram 8, 13=3D Normalization, 14=3D Sinogram Fit)
52 62			. The serial number of the gantry . Date and time that acquisition was started (in
66 74		. Real*4	. Half-life of isotope specified (in sec.)
78 110 114	RADIOPHARMACEUTICAL GANTRY_TILT	.Real*4	. Angle (in degrees)
118 122	BED_ELEVATION	.Real*4	. Bed height (in cm.) from lowest point . Angle that the first detector of Bucket 0 is offset from top center (in degrees)
126 128	TRANSM_SOURCE_TYPE	. Integer*2	. Revolutions/minute (0 if not wobbled) . Enumerated type (SRC_NONE, _RRING, _RING, _ROD, _RROD)
130 134	DISTANCE_SCANNED TRANSAXIAL_FOV		. Total distance scanned (in cm) . Diameter (in cm.) of transaxial view
138	ANGULAR_COMPRESSION		Enumerated Type (0=no mash,1=mash of 2, 2=mash of 4)
140	COIN_SAMP_MODE		Enumerated type (0=Net Trues, 1=Prompts and Delayed, 3= Prompts, Delayed, and Multiples)
142 144		. Integer*2	Enumerated type (0=Normal, 1=2X, 2=3X) Quantification scale factor (to convert from ECAT counts to activity counts)
148 150 152	CALIBRATION_UNITS_LABEL .	. Integer*2	. Enumerated type (0=Uncalibrated, 1=Calibrated,) . Enumerated type (BLOOD_FLOW, LMRGLU) . Enumerated type (COMP_NONE, (This is the
154 166 182	STUDY_TYPE	. Character*16	

214	PATIENT_SEX Character*1 .	. Enumerated type (SEX_MALE, _FEMALE, _UNKNOWN)
215	PATIENT_DEXTERITY Character*1 .	Enumerated type (DEXT_RT, _LF, _UNKNOWN)
216	PATIENT_AGEReal*4	
220	PATIENT_HEIGHTReal*4	
224	PATIENT_WEIGHT Real*4	
228	PATIENT_BIRTH_DATE Integer*4	
232	PHYSICIAN_NAMECharacter*32	Attending Physician name (free format)
264	OPERATOR_NAME Character*32	
296	STUDY_DESCRIPTION Character*32	
328	ACQUISITION_TYPEInteger*2	
020	Nogolomon_milesmeger 2	2=Transmission, 3=Static emission, 4=Dynamic
		emission, 5=Gated emission, 6=Transmission
		rectilinear, 7=Emission rectilinear)
330	PATIENT OPIENTATION Integer*2	Enumerated Type (Bit 0 clear - Feet first, Bit 0 set
330	TATIENT_ONENTATIONInteger 2	- Head first, Bit 1-2 00 - Prone, Bit 1-2 01 -
		Supine,
		Bit 1-2 10 - Decubitus Right, Bit 1-2 11 -
		Decubitus Left)
332	FACILITY_NAME	
352	NUM_PLANES Integer*2	
354		. Number of frames of data collected OR Highest
334	Now_i willow integer 2	frame number (in partially reconstructed files)
356	NUM_GATESInteger*2	
358	NUM_BED_POSInteger*2	
360		Absolute location of initial bed position (in cm.)
364	BED_POSITION(15) Real*4	
424	PLANE_SEPARATIONReal*4	
727	TEMME_SETMOTION	cm.)
428	LWR_SCTR_THRES Integer*2	
430	LWR_TRUE_THRES Integer 2	
432	UPR_TRUE_THRES Integer*2	
434	USER_PROCESS_CODE Character*10	
444	ACQUISITION_MODEInteger*2	
	Nogolomon_Moble	2=Windowed & Nonwindowed, 3=Dual energy,
		4=Upper energy, 5=Emission and Transmission)
446	BIN_SIZEReal*4	Width of view sample (in cm)
450	BRANCHING_FRACTION Real*4	
454		. Actual time radiopharmaceutical was injected or
10 1	2002_07.ttt_thvi2tttgcr 4	flow was started (in sec since base time)
458	DOSAGE Real*4	. Radiopharmaceutical dosage (in bequerels/cc) at
100	2 3 3	time of injection
462	WELL_COUNTER_CORR_FACTOR Real*4	
466	DATA_UNITSCharacter*32	
498		. Septa position during scan (0=septa extended,
. 70	56.7.12	1=septa retracted)
500	FILL(6)Integer*2	
000	(o,	. 5

Subheader for Matrix Attenuation Files

Byte	Variable Name	Туре	Comment
0		· ·	. Enumerated type (DTYPE_BYTES, _I2, _I4, _VAXR4, _SUNFL, _SUNIN)
2	NUM_DIMENSIONS	. Integer*2	. Number of dimensions
4	ATTENUATION_TYPE	. Integer*2	. E. type (ATTEN_NONE, _MEAS, _CALC)
6			. Total elements collected (x dimension)
8	NUM_ANGLES	.Integer*2	. Total views collected (y dimensions)
10	NUM_Z_ELEMENTS	. Integer*2	. Total elements collected (z dimension)
12	RING_DIFFERENCE		
14	X_RESOLUTION	.Real*4	. Resolution in the x dimension (in cm)
18	Y_RESOLUTION	.Real*4	. Resolution in the y dimension (in cm)
22	Z_RESOLUTION	.Real*4	. Resolution in the z dimension (in cm)
26	W_RESOLUTION	. Real*4	.TBD
30	SCALE_FACTOR	. Real*4	. Attenuation Scale Factor
34			. Ellipse offset in x axis from center (in cm.)
38			. Ellipse offset in y axis from center (in cm.)
42	X_RADIUS		
46	Y_RADIUS		
50	TILT_ANGLE	.Real*4	. Tilt angle of the ellipse (in degrees)
54			. Mu-absorption coefficient (in cm ⁻¹)
58			. Minimum value in the attenuation data
62			. Maximum value in the attenuation data
66	SKULL_THICKNESS		
70	NUM_ADDITIONAL_ATTEN_COEF	- Integer*2	. Number of attenuation coefficients other than the Mu absorption coefficient above (max 8)
72	ADDITIONAL_ATTEN_COEFF(8) Real*4	. The additional attenuation coefficient values
104	EDGE_FINDING_THRESHOLD.	. Real*4	. The threshold value used by the automatic edge-
100	CTODACE ODDED	Intonor*O	detection routine (fraction of maximum)
108 110	STURAGE_URDER	. Integer 2	. Data storage order (RThetaZD, RZThetaD)
110	SPAIN	. irrteger 2	. Axial compression specifier (number of ring differences spanned by a segment)
112	Z_ELEMENTS(64)	. Integer*2	. Number of "planes" in z direction for each ring difference segment
240	FILL(86)	Integer*2	
412			. User Reserved space (100 bytes) Note: Use
	(- 3)		highest bytes first
			J

Subheader for Matrix Image Files

Byte	Variable Name	Туре	Comment
0	DATA_TYPE		. Enumerated type (0=Unkonwn Matrix Data Type,
			1=Byte Data, 2=VAX_Ix2, 3=VAX_Ix4,
			4=VAX_Rx4, 5=IEEE Float, 6=Sun short, 7=Sun
			long)
2	NUM_DIMENSIONS	.Integer*2	. Number of dimensions
4	X_DIMENSION		
6	Y_DIMENSION		
8	Z_DIMENSION		
10			. Offset in x axis for recon target (in cm)
14			. Offset in y axis for recon target (in cm.)
18			. Offset in z axis for recon target (in cm.)
22			. Reconstruction magnification factor (zoom)
26	SCALE_FACTOR	.Real*4	. Quantification scale factor (in Quant_units)
30	IMAGE_MIN	.Integer*2	. Image minimum pixel value
32	IMAGE_MAX	.Integer*2	. Image maximum pixel value
34	X_PIXEL_SIZE		
38	Y_PIXEL_SIZE		
42	Z_PIXEL_SIZE		
46			. Total duration of current frame (in msec.)
50	FRAME_START_TIME	. integer^4	. Frame start time (offset from first frame, in
E 4	FILTED CODE	Intogor*?	msec) . Enumerated type (0=all pass, 1=ramp,
54	FILTER_CODE	. integer "2	2=Butterworth, 3=Hanning,
			4=Hamming,5=Parzen, 6=Shepp,
			7=Butterworth-order 2, 8=Gaussian,
			9=Median,10=Boxcar)
56	Y PESOLUTION	Poal*1	Resolution in the x dimension (in cm)
60	V PESOLUTION	Poal*/	Resolution in the y dimension (in cm)
64			Resolution in the z dimension (in cm)
68			. Number R elements from sinogram
72			. Number of angles from sinogram
76	7 ROTATION ANGLE	Real*4	. Rotation in the xy plane (in degrees). Use right-
70	Z_NO // MON_/ MOLE	. redi T	hand coordinate system for rotation angle sign.
80	DECAY CORR ECTR	Real*4	Isotope decay compensation applied to data
84			Bit mask (0=Not Processed, 1=Normalized,
			2=Measured Attenuation Correction,
			4=Calculated Attenuation Correction, 8=X
			smoothing, 16=Y smoothing, 32=Z smoothing,
			64=2D scatter correction, 128=3D scatter
			correction, 256=Arc correction, 512=Decay
			correction, 1024=Online compression)
88	GATE_DURATION	.Integer*4	
		<u>-</u>	

92	R_WAVE_OFFSETInteger*4R wave	offset (For phase sliced studies, average,
	in msec	
96	NUM_ACCEPTED_BEATS Integer*4 Number	of accepted beats for this gate
100	00 FILTER_CUTOFF_FREQUENCY . Real*4 Cutoff fi	requency
104)4 FILTER_RESOLUTION Real*4 Do not ι	ise
108		
112		
114		
118		
122		
162	o2 MT_1_1Matrix ti	ransformation element (1,1).
166		
170		
174		
178	78 MT_2_2Matrix ti	ransformation element (2,2).
182		
186	36 MT_3_1Matrix ti	ransformation element (3,1).
190	00 MT_3_2Matrix ti	ransformation element (3,2).
194	94 MT_3_3Matrix ti	ransformation element (3,3).
198	RFILTER_CUTOFFReal*.4	
202	2 RFILTER_RESOLUTION Real*.4	
206	06 RFILTER_CODEInteger*.2	
208	08 RFILTER_ORDER Integer *	
210	0 ZFILTER_CUTOFFReal*.4	
214	4 ZFILTER_RESOLUTION Real*.4	
218	8 ZFILTER_CODEInteger*.2	
220		
222		ransformation element (1,4)
226		
230		
234	34 SCATTER_TYPE Integer*2 Enumer	ated type (0=None, 1=Deconvolution,
		ated, 3=Dual Energy)
236	_	
		ard projection 3D (PROMIS), 2=Ramp
		AVOR 3D, 4=SSRB, 5=Multi-slice
		g, 6=FORE)
238		
240	(-)	
414	()	
	highest	bytes first

Subheader for Matrix Polar Map Files

DATA_TYPE Integer*2 Enumerated type (DTYPE_BYTES, _I2,_I4) POLAR_MAP_TYPE Integer*2 Enumerated Type (Always 0 for now; denotes the version of the PM structure) NUM_RINGS Integer*2 Number of rings in this polar map ECTORS_PER_RING(32) Integer*2 Number of sectors in each ring for up to 32 rings (1, 9, 18, or 32 sectors normally) RING_POSITION(32) Real*4 Fractional distance along the long axis from base to apex RING_ANGLE(32) Integer*2 Ring angle relative to long axis(90 degrees along cylinder, decreasing to 0 at the apex) START_ANGLE Integer*2 Start angle for rings (Always 258 degrees, defines Polar Map's 0) LONG_AXIS_LEFT(3) Integer*2 x, y, z location of long axis base end (in pixels) LONG_AXIS_RIGHT(3) Integer*2 x, y, z location of long axis apex end (in pixels) POSITION_DATA Integer*2 Enumerated type (0 - Not available, 1 - Present) IMAGE_MIN Integer*2 Minimum pixel value in this polar map
the version of the PM structure) NUM_RINGS Integer*2 Number of rings in this polar map ECTORS_PER_RING(32). Integer*2 Number of sectors in each ring for up to 32 rings (1, 9, 18, or 32 sectors normally) RING_POSITION(32). Real*4 Fractional distance along the long axis from base to apex RING_ANGLE(32) Integer*2 Ring angle relative to long axis(90 degrees along cylinder, decreasing to 0 at the apex) START_ANGLE Integer*2 Start angle for rings (Always 258 degrees, defines Polar Map's 0) LONG_AXIS_LEFT(3) Integer*2 x, y, z location of long axis abse end (in pixels) LONG_AXIS_RIGHT(3) Integer*2 x, y, z location of long axis apex end (in pixels) POSITION_DATA Integer*2 Enumerated type (0 - Not available, 1 - Present)
4NUM_RINGS.Integer*2Number of rings in this polar map6SECTORS_PER_RING(32).Integer*2Number of sectors in each ring for up to 32 rings (1, 9, 18, or 32 sectors normally)70RING_POSITION(32).Real*4Fractional distance along the long axis from base to apex198RING_ANGLE(32)Integer*2Ring angle relative to long axis(90 degrees along cylinder, decreasing to 0 at the apex)262START_ANGLEInteger*2Start angle for rings (Always 258 degrees, defines Polar Map's 0)264LONG_AXIS_LEFT(3)Integer*2x, y, z location of long axis base end (in pixels)270LONG_AXIS_RIGHT(3)Integer*2x, y, z location of long axis apex end (in pixels)276POSITION_DATAInteger*2Enumerated type (0 - Not available, 1 - Present)
6 SECTORS_PER_RING(32). Integer*2 Number of sectors in each ring for up to 32 rings (1, 9, 18, or 32 sectors normally) 70 RING_POSITION(32). Real*4 Fractional distance along the long axis from base to apex 198 RING_ANGLE(32) Integer*2 Ring angle relative to long axis(90 degrees along cylinder, decreasing to 0 at the apex) 262 START_ANGLE Integer*2 Start angle for rings (Always 258 degrees, defines Polar Map's 0) 264 LONG_AXIS_LEFT(3) Integer*2 x, y, z location of long axis base end (in pixels) 270 LONG_AXIS_RIGHT(3) Integer*2 x, y, z location of long axis apex end (in pixels) 276 POSITION_DATA Integer*2 Enumerated type (0 - Not available, 1 - Present)
(1, 9, 18, or 32 sectors normally) RING_POSITION(32). Real*4 Fractional distance along the long axis from base to apex RING_ANGLE(32) Integer*2 Ring angle relative to long axis(90 degrees along cylinder, decreasing to 0 at the apex) START_ANGLE Integer*2 Start angle for rings (Always 258 degrees, defines Polar Map's 0) LONG_AXIS_LEFT(3) Integer*2 X, y, z location of long axis base end (in pixels) LONG_AXIS_RIGHT(3) Integer*2 X, y, z location of long axis apex end (in pixels) POSITION_DATA Integer*2 Enumerated type (0 - Not available, 1 - Present)
70 RING_POSITION(32). Real*4 Fractional distance along the long axis from base to apex 198 RING_ANGLE(32) Integer*2 Ring angle relative to long axis(90 degrees along cylinder, decreasing to 0 at the apex) 262 START_ANGLE Integer*2 Start angle for rings (Always 258 degrees, defines Polar Map's 0) 264 LONG_AXIS_LEFT(3) Integer*2 x, y, z location of long axis base end (in pixels) 270 LONG_AXIS_RIGHT(3) Integer*2 x, y, z location of long axis apex end (in pixels) 276 POSITION_DATA Integer*2 Enumerated type (0 - Not available, 1 - Present)
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cylinder, decreasing to 0 at the apex) 262 START_ANGLE
START_ANGLE
defines Polar Map's 0) 264 LONG_AXIS_LEFT(3)
LONG_AXIS_LEFT(3)
276 POSITION_DATA Integer*2 Enumerated type (0 - Not available, 1 - Present)
270 IMACE MINI Integer*2 Minimum nivel value in this polar man
280 IMAGE_MAX
Values
286 PIXEL_SIZE
290 FRAME_DURATION Integer*4 Total duration of current frame (in msec)
294 FRAME_START_TIME Integer*4 Frame start time (offset from first frame, in msec)
298 PROCESSING_CODE Integer*2 Bit Encoded (1- Map type (0 = Sector Analysis, 1
= Volumetric), 2 - Threshold Applied, 3 - Summed
Map, 4 - Subtracted Map, 5 - Product of two maps, 6 -
Ratio of two maps, 7 - Bias, 8 - Multiplier, 9 -
Transform,
10 - Polar Map calculational protocol used)
300 QUANT_UNITS Integer*2 Enumerated Type (0 - Default (see main header),
1 - Normalized, 2 - Mean, 3 - Std. Deviation from
Mean) 302 ANNOTATIONCharacter*40. Label for polar map display
342 GATE_DURATIONInteger*4Gate duration (in msec)
346 R_WAVE_OFFSETInteger*4R wave offset (Average, in msec)
350 NUM_ACCEPTED_BEATS Integer*4 Number of accepted beats for this gate
POLAR_MAP_PROTOCOL Character*20 . Polar Map protocol used to generate this polar
map 374 DATABASE_NAMECharacter*30. Database name used for polar map comparison
404 FILL(27)
464 FILL(27)
highest bytes first

Subheader for 3D Matrix Scan Files

Rvte	Variable Name	Туре	Comment
0	ΝΔΤΔ ΤΥΡΕ	Integer*2	Enumerated type (ByteData, SunShortt)
2	NUM_DIMENSIONS	Integer 2	Number of Dimensions
4	NIIM R FLEMENTS	Integer 2	. Total elements collected (r dimension)
6	NIIM ANGLES	Integer 2	Total views collected (θ dimension)
8			Designates processing applied to scan data (Bit
U	CORRECTIONS_ALTERED	. IIIteger 2	encoded, Bit 0 - Norm, Bit 1 - Atten, Bit 2 -
			Smooth)
10	NIIIN 7 ELEMENTS(64)	Intogor*2	. Number of elements in z dimension for each ring
10	110101_Z_EEE101E1013(04)	. IIIteger 2	difference segment in 3D scans
138	RING DIFFERENCE	Integer*2	. Max ring difference (d dimension) in this frame
140			Data storage order (rθzd or rzθd)
142			. Axial compression code or factor, generally
172	TANKE_GOIVII RESSION	. integer 2	referred to as SPAN
144	X RESOLUTION	Real*4	Resolution in the r dimension (in cm)
148	V RESOLUTION	Real*4	Resolution in the θ dimension (in radians)
152			Resolution in the z dimension (in cm)
156	W_RESOLUTION		
160	FILL(6)		
172	GATE DURATION	.Integer*4	. Gating segment length (msec, Average time if
		_	nhasad gatos are used)
176	R_WAVE_OFFSET	.Integer*4	. Time from start of first gate (Average, in msec.)
180			. Number of accepted beats for this gate
184			. If data type is integer, this factor is used to
			convert to float values
188	SCAN_MIN	.Integer*2	. Minimum value in sinogram if data is in integer
			form (not currently filled in)
190	SCAN_MAX	.Integer*2	. Maximum value in sinogram if data is in integer
			form (not currently filled in)
192			. Total prompts collected in this frame/gate
196			. Total delays collected in this frame/gate
200	MULTIPLES	.Integer*4	. Total multiples collected in this frame/gate (not
			used)
204			. Total net trues (promptsrandoms)
208			. Mean value of loss-corrected singles
212			. Mean value of singles (not loss corrected)
216			. Measured coincidence rate (from IPCP)
220			. Time offset from first frame time (in msec.)
224	PEADTIME CORRECTION FACTOR	. integer^4	. Total duration of current frame (in msec.)
228	DEADTIVIE_CORRECTION_FACTOR	. Real"4	. Dead-time correction factor applied to the
222	EILL (00)	Intogor*2	sinogram . CTI Reserved space (180 bytes)
232 412			. User Reserved space (180 bytes) Note: Use
412	ILL(00)	. iiitegei z	highest bytes first
512	LINCOR SINGLES(128)	Real*4	. Total uncorrected singles from each bucket
J 1 Z	ONOON_SHAGELS(120)	. N.Cai +	. Total anconfected singles from Each bucket

Subheader for 3D Normalization Files

Byte	Variable Name	Туре	Comment
0	DATA_TYPE	.Integer*2	. Enumerated type (leeeFloat)
2	NUM_R_ELEMENTS	. Integer*2	. Total elements collected (y dimension)
4	NUM_TRANSAXIAL_CRYSTALS	SInteger*2	. Number of transaxial crystals per block
6	NUM_CRYSTAL_RINGS	. Integer*2	. Number of crystal rings
8	CRYSTALS_PER_RING	. Integer*2	. Number of crystals per ring
10	NUM_GEO_CORR_PLANES	. Integer*2	Number of rows in the Plane Geometric
10	LILD	l-t+0	Correction array
12	ULD		
14	LLD		
16	SCATTER_ENERGY		
18	NORM_QUALITY_FACTOR	.Real*4	. Used by Daily Check to determine the quality of the scanner
22	NORM_QUALITY_FACTOR_CODE .	.Integer*2	. Enumerated Type (TBD)
24			. First "per ring" dead time correction coefficient
152			. Second "per ring" dead time correction
	_		coefficient
280	CRYSTAL_DTCOR(8)	. Real*4	. Dead time correction factors for transaxial
			crystals
312	SPAN	. Integer*2	. Axial compression specifier (number of ring differences included in each segment)
314	MAX RING DIFF	Integer*2	. Maximum ring difference acquired
316			. CTI Reserved space (96 bytes)
412			. User Reserved space (100 bytes) Note: Use
712	1124(00)	. integer 2	highest bytes first

Subheader for Imported 6.5 Matrix Scan Files

Version 6.5 scan files that are imported into Version 7.X cannot be reconstructed. The subheader is only 512 bytes, rather than 1024.

•	Variable Name	Туре	Comment
0	DAIA_IYPE	.Integer*2	.Enumerated type (DTYPE_BYTES, _I2, _I4, _VAXR4, _SUNFL, _SUNIN)
2	NUM_DIMENSIONS	. Integer*2	. Number of Dimensions
4			. Total elements collected (x dimension)
6			. Total views collected (y dimension)
8	CORRECTIONS_APPLIED	. Integer*2	Designates processing applied to scan data (Bit encoded, Bit 0 - Norm, Bit 1 - Atten, Bit 2 - Smooth)
10	NUM_Z_ELEMENTS	. Integer*2	. Total elements collected (z dimension) For 3D scans
12	RING_DIFFERENCE	Integer*2	
14	X RESOLUTION	Real*4	Resolution in the x dimension (in cm)
18			Resolution in the y dimension (in cm)
22			Resolution in the z dimension (in cm)
26	W_RESOLUTION		
30	FILL(6)		
42			. Gating segment length (msec, Average time if
		Ü	phased gates are used)
46			. Time from start of first gate (Average, in msec.)
50	NUM_ACCEPTED_BEATS	. Integer*4	. Number of accepted beats for this gate
54			. If data type=integer, use this factor, convert to float values
58	SCAN_MIN	.Integer*2	. Minimum value in sinogram if data is in integer
			form
60	SCAN_MAX	.Integer*2	. Maximum value in sinogram if data is in integer
			form
62			. Total prompts collected in this frame/gate
66			. Total delays collected in this frame/gate
70			. Total multiples collected in this frame/gate
74			. Total net trues (promptsrandoms)
78			. Total singles with loss correction factoring
142			. Total singles without loss correction factoring
206			. Mean value of loss-corrected singles
210			. Mean value of singles (not loss corrected)
214			. Measured coincidence rate (from IPCP)
218			. Time offset from first frame time (in msec.)
222 226			. Total duration of current frame (in msec.) . Dead-time correction factor applied to the
220	DLAD HIVIL_CORRECTION_FACTOR	. NEdl 4	sinogram
230	PHYSICAL PLANES(8)	Integer*?	. Physical planes that make up this logical plane
246			. CTI Reserved space (166 bytes)
412			. User Reserved space (100 bytes) Note: Use
114	(00)	togor 2	highest bytes first