	Main Header for Matrix Data Files				
When Filled	Byte	Variable Name	Туре	Comment	
	0	%FILL(14)	Integer*2	.User reserved space (28 bytes)	
Α	28	ORIGINAL_FILE_NAME			
Α	48	SW_VERSION	Integer*2	.Enumerated type (VER_PRE5,VER_5, etc.)	
Α	50	DATA_TYPE	Integer*2	.E. type (DTYPE_BYTES,DTYPE_12, etc.)	
Α	52	SYSTEM TYPE	Integer*2	.E. type (MODEL_911_01, _02, etc.)	
Α	54	FILE_TYPE			
С	56	NODE_ID			
С	66	SCAN_START_DAY			
С	68	SCAN_START_MONTH			
С	70	SCAN_START_YEAR			
С	72	SCAN_START_HOUR	Integer*2	.Hour acquisition was started	
С	74	SCAN_START_MINUTE			
С	76	SCAN_START_SECOND			
Α	78	ISOTOPE_CODE			
Α	86	ISOTOPE_HALFLIFE			
Α	90	RADIOPHARMACEUTICAL			
1	122	GANTRY_TILT			
	126	GANTRY_ROTATION			
Α	130	BED_ELEVATION			
Α	134	ROT_SOURCE_SPEED			
Α	136	WOBBLE_SPEED			
Α	138	TRANSM_SOURCE_TYPE	Integer*2	.Enumerated type (SRC_NONE, _RRS, etc.)	

Table 13-3. Main Header for Matrix Data Files.

	Main Header for Matrix Data Files (continued)			
When Filled		Variable Name	Туре	Comment
Α	140	AXIAL FOV	Real*4	Distance (in cm.) from first to last plane
Α	144	TRANSAXIAL_FOV	. Real*4	. Diameter (in cm.) of transaxial view
Α	148	TRANSAXIAL SAMP MODE	. Integer*2	Enumerated Type (XSAMP_STAT, _3, etc.)
Α	150	COIN_SAMP_MODE	. Integer*2	. E. type (CSAMP_NET_TRUES_etc.)
Α	152	AXIAL_SAMP_MODE	. Integer*2	E. type (ASAMP_NORM_2X_etc.)
С	154	CALIBRATION_FACTOR		
С	158	CALIBRATION_UNITS		
B/C	160	COMPRESSION CODE	. Integer*2	Enumerated type (COMP_NONE, etc.)
Α	162	STUDY_NAME	. Character*12	. Study descriptor
Α	174	PATIENT_ID	. Character*16	Patient identification descriptor
Α	190	PATIENT_NAME	. Character*32	Patient name (free format ASCII)
Α	222	PATIENT_SEX	. Character*1	E. type (SEX-MALE, FEMALE, etc.)
Α	223	PATIENT_AGE	. Character*10	. Patient age (free format)
Α	233	PATIENT_HEIGHT	. Character*10	Patient height (free format)
Α	243	PATIENT_WEIGHT	. Character*10	Patient weight (free format)
Α	253	PATIENT_DEXTERITY	. Character*1	E. type (DEXT_RT_ LE_AMB_etc.)
Α	254	PHYSICIAN_NAME	. Character*32	Physician name (free format)
Α	254	PHYSICIAN_NAME	. Character*32	Physician name (free format)
Α	286	OPERATOR_NAME	Character*32	Operator name (free format)
Α		STUDY_DESCRIPTION		
Α		ACQUISITION_TYPE		
Α	352	BED_TYPE	Integer*2	E type (RED CTI RED SIEMENS)
A	354	SEPTA_TYPE	Integer*2	E type (SEPTA NONE 3MM etc.)
A	356	FACILITY_NAME	Character*20	Free format ASCII
		NUM_PLANES		
	378	NUM_FRAMES	Integer 2	Number of frames of data collected
	380	NUM_GATES	Integer*2	Number of dates of data collected
A	382	NUM BED POS	Integer*2	Number of bed positions of data collected
	384	INIT BED POSITION	Real*4	Absolute bed location of bed position 0 (cm.)
	388	BED OFFSET(15)	Real*4	.Offset from INIT_BED_POSITION (in cm.)
		PLANE SEPARATION	Real*4	Distance between adjacent planes (in cm.)
	452	LWR SCTR THRES	Integer*2	Lowest threshold setting for scatter (in KeV)
		IWR TRUE THRES	Integer*2	.Lower threshold setting for trues in (in KeV)
	456	UPR TRUE THRES	Integer*2	.Upper threshold setting for trues (in KeV)
	458	COLLIMATOR	. integer ∠ Rool*A	Collimator position (if applicable-911's)
	462	USER PROCESS CODE	Character*10	Data processing code (defined by user)
	472	%FILL(20)	Unaracier IV	.Data processing code (defined by user)

Table 13-4. Main Header for Matrix Data Files (continued).

	Subheader for Matrix Scan Files			
When Filled	Byte	Variable Name	Туре	Comment
	0	%FILL(63)	Integer*2	User reserved space (126 bytes)
	126	DATA_TYPE	. Integer*2	Enumerated file data type
	128	%FILL(2)		
С	132	DIMENSION 1		
С	134	DIMENSION 2	. Integer*2	Total elements collected (x dimension)
С	136			$\dots$ 0 = not smoothed, 1 = 9 x 9 smoothing
	138			Designates processing applied to scan data
	140	%FILL(3)		
С				Actual Distance of view sample (in cm.)
-		%FILL(8)		
С	166	ISOTOPE HALFLIFE		
-	170	FRAME_DURATION_SEC		
_	172	GATE_DURATION		
Č	176			Time from start of first gate (in msec.)
_	180	%FILL(1)		
С	182	SCALE FACTOR		
-		%FILL(3)		
-		SCAN_MIN		
-		SCAN_MAX		
				Total prompts collected in this frame/gate
_				Total delays collected in this frame/gate
				Total multiples collected in this frame/gate
-		NET_TRUES		
_		%FILL(52)		
		· ,	•	Total singles with loss correction factoring
-				Total singles without loss correction factoring
		TOT_AVG_COR		
				Mean value of singles (not loss corrected)
				Measured coincidence rate (from IPCP)
_				Time offset from first frame time (in msec.)
-				Total duration of current frame (in msec.)
-				Loss correction factor applied to the sinogram
~	757			Unused (44 bytes)

Table 13-5. Subheader for Matrix Scan Files.

	Main Header for Matrix Image Files			
When Filled		Variable Name	Туре	Comment
	0	%FILL(63)	Integer*2	.User reserved space (126 bytes)
В	126	DATA TYPE	Integer*2	.Enumerated type (DTYPE_BYTES, _l2, etc.)
В	128	NUM_DIMENSIONS	Integer*2	.Number of dimensions
	130	%FILL(1)		
В	132	DIMENSION_1	Integer*2	.Dimension along x axis
В	134	DIMENSION_2		
	136	%FILL(12)	Integer*2	.Unused
В	160	X_ORIGIN	Real*4	.Offset in x axis for recon target (in cm.)
В	164	Y_ORIGIN	Real*4	.Offset in y axis for recon target (in cm.)
В	168	RECON_SCALE	Real*4	.Reconstruction magnification factor (zoom)
В	172	QUANT_SCALE	Real*4	.Quantification scale factor (in Quant_units)
В	176	IMAGE_MIN		
В	178	IMAGE_MAX		
	180	%FILL(2)	Integer*2	.Unused
В	184	PIXEL_SIZE	Real*4	.Pixel size (in cm.)
В	188	SLICE_WIDTH		
В	192	FRAME_DURATION	Integer*4	.Total duration of current frame (in msec.)
В	196	FRAME_START_TIME	Integer*4	.Frame start time (offset from first frame)
В	200	SLICE_LOCATION	Integer*2	.Location offset from initial bed position (cm.)
В	202	RECON_START_HOUR		
В	204	RECON_START_MIN	Integer*2	.Minute reconstruction began
В	206	RECON_START_SEC	Integer*2	.Second reconstruction began
В	208	RECON_DURATION		
	212	%FILL(12)	Integer*2	Unused (24 bytes)
В	236			.Enumerated type (FILT_NONE, _RAMP, etc.)
В	238	SCAN_MATRIX_NUM	Integer*4	.File index to corresponding scan data
В	242	NORM_MATRIX_NUM	Integer*4	.File index to corresponding normal. data
В	246	ATTEN_COR_MAT_NUM	Integer*4	.File index to attenuation correction data
	250	%FILL(23)		
В	296	IMAGE_ROTATION		
В	300	PLANE_EFF_CORR_FCTR	Real*4	.Plane efficiency factor applied
В	304	DECAY_CORR_FCTR	Real*4	.Isotope decay compensation applied to data

Table 13-8. Subheader for Matrix Image Files.

Main Header for Matrix Image Files (continued)				
When Filled		Variable Name	Туре	Comment
В	308	LOSS_CORR_FCTR	Real*4	Loss correction factor (dead time) applied
	312	%FILL(32)	Integer*2	Unused (64 bytes)
В	376	PROCESSING_CODE	Integer*2	Bit encoded (PROC_DECAY_MASK, etc.)
	378	%FILL(1)	Integer*2	Unused
В	380	QUANT_UNITS	Integer*2	E. type (UNIT_MCIML, _NONE, etc.
В	382	RECON_START_DAY	integer*2	Day image was reconstructed
В	384	RECON_START_MONTH	Integer*2	Month image was reconstructed
В	386	RECON_START_YEAR	Integer*2	Year image was reconstructed
В	388	ECAT_CALIBRATION_FCTR	Real*4	ECAT calibration factor
В	392	WELL_COUNTER_CAL_FCTR	Real*4	Well counter calibration factor
В	396	FILTER PARAMS(6)	Real*4	Cutoff frequency, DC component, ramp slope
В	420	ANNOTATION	Character*40	Free format ASCII
	460	%FiLL(26)	Integer*2	User reserved space (52 bytes)

Table 13-9. Subheader for Matrix Image Files (continued).