		FSL 3.1	SPM	AFNI	BrainVoyager (QX)	vtc export to analyze2	fmr ovnort to analyzo?	FreeSurfer	NITFI1 ??
struct	header_key				viiir export to analyzer	vic export to analyzez	inir export to analyzes	read	write
int	sizeof_hdr	used to test byte ordering	needs to be 348		set to '348'	set to '348'	set to '348'	used to test byte ordering	set to 348 in native byte order
char	data_type[10]	,			set to 'dsr'	set to 'dsr'	set to 'dsr'	,	,
char	db_name[18]		ignored on reading, but s	set to image filename - or ho		su	su		
int	extents				set to '0'	set to '0'	set to '0'		
short	session_error	ant to Jul	aab ba lul		set to '0'	set to '0'	set to '0'		
char char	regular hkey_un0	set to 'r'	set to 'r'		set to 'r' set to 'O'	set to 'r' set to 'O'	set to 'r' set to 'O'		
Cital	incy_uno				Set to 0	300 00	Set to 0		
struct	image_dimension								
short	dim[8]	dim[0] not used, rest: su	dim[0] for byte order tes	dim[0] for byte order testing					dim[0] = 4 always
char char	vox_units[4]	set to 'mm'			set to 'mm', vox_units[3 set to '0'	set to 'mm', vox_units[: set to '0'	3 set to 'mm', vox_units[3] set to '0'] = 0	
short	cal_units[8] unused1				set to '0'	set to '0'	set to '0'		
short	datatype	su	su	su	DT_UNSIGNED_CHAR	DT_SIGNED_SHORT	DT_SIGNED_SHORT	su	su
short	bitpix	set but not read	set but not read	Su	set to '8'	set to '16'	set to '16'	unused	su
short	dim_un0				set to '0'	set to '0'	set to '0'		
float	pixdim[8]	su; pixdim[4]=TR in FMRI	pixdim 1 to 3 - voxel size	determines voxel sizes [1	4 pixdim[1-3] set to '1.0',	r pixdim 1-3 su (valid onl	pixdim 1-3 su; pixdim[3]	su	pixdim[4]=TR if dim[4] > 1
float	vox_offset				set to '0.0'	offset x	set to '0.0'	su	0
float	funused1			(see SPM (controlled by env		offset y	set to '0.0'		
float	funused2		intercept if funused1~=0)	set to '0.0'	offset z	set to '0.0'		
float	funused3				set to '0.0'	TR	TR		
float int	cal_max,cal_min	display intensity range	scale and intercept (su) i	f funused1==0	set to '0.0'	set to '0.0' set to '0.0'	set to '0.0' set to '0.0'		
int	compressed verified				set to '0.0' set to '0.0'	set to '0.0'	set to '0.0'		
int	glmax,glmin	set to int(cal_max/min) but	scale and intercent (su) i	f funused1==0	set to '0' and '255'	set to '0' and '32767'	set to '0' and '32767'	unused	mix, max values
	g . , g								,
struct	data_history								
char	descrip[80]		human readable text		human readable text	human readable text	human readable text		
char	aux_file[24]	name of colour LUT for disp	lay		set to 'none'	set to 'none'	set to 'none'		
char char	orient originator[10]	co ordinato origin (2 chorte	'co ordinato origin (2 cho	see SPM (controlled by env	set to '0'	set to '0'	set to '0'	used if no .mat file su if no .mat file	unused su
char	generated[10]	co-ordinate origin (5 shorts	, co-ordinate origin (5 sno	i see Srin (controlled by env	ironnenc variable)			su ii iio .iiiat iiie	Su .
char	scannum[10]								
char	patient id[10]								
char	exp_date[10]								
char	exp_time[10]								
char	hist_un0[3]								
int	views				set to '0'	set to '0'	set to '0'		
int int	vols_added				set to '0' set to '0'	set to '0' set to '0'	set to '0' set to '0'		
int	start_field field skip				set to '0'	set to '0'	set to '0'		
int	omax,omin				set to '0'	set to '0'	set to '0'		
int	smax,smin				set to '0'	set to '0'	set to '0'		
-	,				-		•		
struct	dsr								
struct	header_key	hk 							
struct struct	image_dimension data_history	dime hist							
Struct	uata_nistory	IIISL							
#define	DT_NONE	0							
#define	DT_UNKNOWN	0							
#define	DT_BINARY	1							
#define	DT_UNSIGNED_CHAR	2							
#define	DT_SIGNED_SHORT	4							
#define #define	DT_SIGNED_INT DT_FLOAT	8 16							
#define	DT_PLOAT DT_COMPLEX	32							
#define	DT_DOUBLE	64							
#define	DT_RGB	128							
#define	DT_ALL	255							

Notes

su = standard usage

1 a *.vmr file contains anatomical 3D data

2 a *.vtc file contains functional data (time series) of one experimental run in 3D format

3 a *.fmr file describes functional data that are stored in *.stc (slice time course) files (=2D)