

integer datatype formats			
signed byte		7	6..0
		S	integer
signed word		15	14..0
		S	integer
signed dword		31	30..0
		S	integer
signed qword	63	63..0	
	S	integer	
unsigned byte		7..0	
		integer	
unsigned word		15..0	
		integer	
unsigned dword		31..0	
		integer	
unsigned qword		63..0	
		integer	
BCD		7..4	3..0
		res.	BCD
packed BCD		7..4	3..0
		BCD	BCD

pointer datatype formats			
near pointer		31..0	
		offset or virtual address	
far pointer	47..32	31..0	
	segment or selector	offset	
64bit near pointer	63..0		
	offset or virtual address		

FP datatype formats			
single real		31	30..23
		S	exp.
		22..0	
		fraction	
double real	63	62..52	51..0
	S	exp.	fraction
extended real	79	78..64	63
	S	exp.	I
		62..0	
		fraction	

word integer																15	14..0														
																S	integer														
short integer																31	30..0														
																S	integer														
long integer																63	62..0														
																S	integer														
packed BCD	79	78..72					71..0																								
	S	res.					D17	D16	D15	D14	D13	D12	D11	D10	D9	D8	D7	D6	D5	D4	D3	D2	D1	D0							

MMX datatype formats

packed byte									63..56	55..48	47..40	39..32	31..24	23..16	15..8	7..0
									byte	byte	byte	byte	byte	byte	byte	byte
packed word									63..48		47..32		31..16		15..0	
									word		word		word		word	
packed dword									63..32				31..0			
									dword				dword			
qword									63..0							
									qword							
packed byte	127..120	119..112	111..104	103..96	95..88	87..80	79..72	71..64	63..56	55..48	47..40	39..32	31..24	23..16	15..8	7..0
	byte	byte	byte	byte	byte	byte	byte	byte	byte	byte	byte	byte	byte	byte	byte	byte
packed word	127..112		111..96		95..80		79..64		63..48		47..32		31..16		15..0	
	word		word		word		word		word		word		word		word	
packed dword	127..96				95..64				63..32				31..0			
	dword				dword				dword				dword			
packed qword	127..64								63..0							
	qword								qword							

SSE datatype format

scalar single FP	127..96				95..64				63..32				31..0			
	reserved				reserved				reserved				single FP			
packed single FP	127..96				95..64				63..32				31..0			
	single FP				single FP				single FP				single FP			

SSE2 datatype format

scalar double FP	127..64								63..0							
	reserved								double FP							
packed double FP	127..64								63..0							
	double FP								double FP							

