SEND_BUF(SEND_DATA) DEFINITION

SEND_BUF(SEND_DATA):

HEADER	Robot_state information			
start	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	end		

TABLE1

	NO.(BYTE)	NAME	SIZE(BYTE)	
	0	Request (see TABLE2)		
	1	length-byte1 (see TABLE3)		
HEADER	2	length-byte2 (see TABLE3)		
HEADER	3	<pre>group_select (see TABLE4)</pre>		
LENGTH:	4	GROUPO data_select (see TABLE5)	10	
10 BYTE	5	GROUP1 data_select (see TABLE5)	10	
TO DITE	6	GROUP2 data_select (see TABLE5)		
	7	GROUP3 data_select (see TABLE5)		
	8	GROUP4 data_select (see TABLE5)		
	9	GROUP5 data_select (see TABLE5)		
DATA LENGTH: 0- 2133BYTE	•••	Robot_state information	0-2113?	
CRC32 CHECK	at end	CRC CODE	32	

TABLE2 REQ

	ВҮТЕ0	BIT8		PKT_START=0
		BIT7	REQUEST TYPE	x30;//0011-
		BIT6		
DECLIEST		BIT5		
REQUEST		BIT4		PACKET
		BIT3	PACKET	NUMMER 0-15
		BIT2	NUMMER	= 0x00-0x0F
		BIT1		= 6766-6761

TABLE3 LENGTH

LENGIH	BYTE1	Chan		Commont	4.	T			-14	*	
OF SENDDATA	BYTE2	Cnar	>>	Convert	το	туре	>>	unsigned	Snort	int	

TABLE4 GROUP SELECT

	віт	VALUE
	BIT8	1=GROUP7 Slected, 0=GROUP7 not Selected,
	BIT7	1=GROUP6 Slected, 0=GROUP6 not Selected,
	BIT6	1=GROUP5 Slected, 0=GROUP5 not Selected,

GROUP	BYTE3	BIT5	1=GROUP4	Slected,	0=GROUP4	not	Selected,
SELECT	BYIES	BIT4	1=GROUP3	Slected,	0=GROUP3	not	Selected,
		BIT3	1=GROUP2	Slected,	0=GROUP2	not	Selected,
		BIT2	1=GROUP1	Slected,	0=GROUP1	not	Selected,
		BIT1	1=GROUP0	Slected,	0=GROUP0	not	Selected,

TABLE5 DATA SELECT

NO.(BYTE)	GROUP	BIT	NAME	SIZE(BYTE)	VALUE
, ,		8	#define 0 T EE 0x0101	128	1=selected, 0=not selected
BYTE4 G		7	#define O T EE d 0x0102	128	1=selected, 0=not selected
		6	#define F_T_EE 0x0104	128	1=selected, 0=not selected
		5	#define EE T K 0x0108	128	1=selected, 0=not selected
	GROUP0	4	#define m ee 0x0110	8	1=selected, 0=not selected
		3	#define I ee 0x0120	72	1=selected, 0=not selected
		2	#define F x Cee 0x0140	24	1=selected, 0=not selected
		1	#define m load 0x0180	8	1=selected, 0=not selected
		8	#define I load 0x0201	72	1=selected, 0=not selected
		7	#define F x Cload 0x0202	24	1=selected, 0=not selected
		6	#define m total 0x0204	8	1=selected, 0=not selected
		5	#define I total 0x0208	72	1=selected, 0=not selected
BYTE5	GROUP1	4	#define F x Ctotal 0x0210	24	1=selected, 0=not selected
		3	#define elbow 0x0220	16	1=selected, 0=not selected
		2	#define elbow d 0x0240	16	1=selected, 0=not selected
		1	#define elbow_d 0x0240	16	1=selected, 0=not selected
		8	#define delbow_c 0x0401	16	1=selected, 0=not selected
		7	#define ddelbow c 0x0402	16	1=selected, 0=not selected
		6	#define tau J 0x0404	56	1=selected, 0=not selected
		E	#define tau J d 0x0408	56	1=selected, 0=not selected
BYTE6	GROUP2	J	#define dtau J 0x0410	56	1=selected, 0=not selected
		2	#define a 0x0420	56	1=selected, 0=not selected
		2	#define q d 0x0440	56	
		1	#define dg 0x0480	56	
		8		56	
		7	#define dq_d 0x0801	56	1=selected, 0=not selected
		/ c	#define ddq_d 0x0802	56	1=selected, 0=not selected
		Б	#define joint_contact 0x0804 #define cartesian contact 0x0808	48	1=selected, 0=not selected 1=selected, 0=not selected
BYTE7	GROUP3	2	#define ioint collision 0x0810	56	
		4	3	48	1=selected, 0=not selected
		2	#define cartesian_collision 0x0820 #define tau ext hat filtered 0x0840	56	1=selected, 0=not selected 1=selected, 0=not selected
		4		48	
		8	#define O_F_ext_hat_K 0x0880 #define K F ext hat K 0x1001	48	1=selected, 0=not selected 1=selected, 0=not selected
		7		48	
		/ c	#define O_dP_EE_d 0x1002 #define O T EE c 0x1004	128	1=selected, 0=not selected 1=selected, 0=not selected
		о г		48	
BYTE8	GROUP4	J	#define O_dP_EE_c 0x1008	48	1=selected, 0=not selected
		2	#define O_ddP_EE_c 0x1010 #define theta 0x1020	56	1=selected, 0=not selected 1=selected. 0=not selected
		2		56	
		4	#define dtheta 0x1040		1=selected, 0=not selected
		1	#define current_errors 0x1080 #define last motion errors 0x2001	5? 5?	1=selected, 0=not selected
	GROUP5	7		8	1=selected, 0=not selected
		<i>r</i>	#define control_command_success_rate 0x2002	1	1=selected, 0=not selected
		0	#define robot_mode 0x2004	-	1=selected, 0=not selected
BYTE9		2	#define time 0x2008	8	1=selected, 0=not selected
		4	#define UNDEF1 0x2010	+	1=selected, 0=not selected
		3	#define UNDEF2 0x2020	1	1=selected, 0=not selected
		2	#define UNDEF3 0x2040		1=selected, 0=not selected
		1	#define UNDEF4 0x2080		1=selected, 0=not selected
			sum	2113	