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**1.2. PAF: Textual (de)-calibration overview**

number	mnem	description	altxt	alval
1997	fpu shutter	FPU shutter status		
			open	1
			closed	2
			wobble	3
1998	fpu tc status	FPU TC status		
			stand-by	0
			active	1
1999	pdu line	PDU selected line		
			LSU	1
			HRS-V	2
			HRS-H	4
			WBS-H	8
			WBS-V	16
			LCU	32

**1.3. CCA: Numerical (de)-calibration overview**

numbr	mnem	description	xvals	yvals

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**1.4. PRF: Parameter range sets overview**

number	mnem	description	minval	maxval
1996	fpu shutter	FP status shutter		
			1	3
1997	fpu tc status	FPU status		
			0	1
1998	pdu sense	Sense range		
			0	63
1999	pdu switches	Possible switches		
			1	1
			2	2
			4	4
			8	8
			16	16
			32	32

**1.5. PCF: Monitoring parameter definition**

name	descr	unit	ptc	pfc	width	valid	categ	natur	curtx	parval	valpar	ctx_mnem	caf_mnem	txf_mnem
KM000	PD_sw_cmd_status		2	8			S	R	1999			pd_cmd_stat		1999



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name	descr	unit	ptc	pfc	width	valid	categ	natur	curtx	parval	valpar	ctx_mnem	caf_mnem	txf_mnem
KM001	PD_sw_fault_stat		2	8			S	R	1998			pd_fault_stat		1998
KM002	PD_volt_in1	V	3	4			N	R	1999			pd_voltcal1	1999	
KM003	PD_volt_in2	V	3	4			N	R	1999			pd_voltcal1	1999	
KM004	PD_volt_out0		3	4			N	R						
KM005	PD_volt_out1		3	4			N	R						
KM006	PD_volt_out2		3	4			N	R						
KM007	PD_volt_out3		3	4			N	R						
KM008	PD_volt_out4		3	4			N	R						
KM009	PD_volt_out5		3	4			N	R						
KM010	PD_volt_out6		3	4			N	R						
KM011	PD_volt_out7		3	4			N	R						
KM012	PD_volt_out8		3	4			N	R						
KM013	PD_volt_out9		3	4			N	R						
KM014	PD_volt_out10		3	4			N	R						
KM015	PD_curr_out0		3	4			N	R						
KM016	PD_curr_out1		3	4			N	R						
KM017	PD_curr_out2		3	4			N	R						
KM018	PD_curr_out3		3	4			N	R						
KM019	PD_curr_out4		3	4			N	R						
KM020	PD_curr_out5		3	4			N	R						
KM021	PD_curr_out6		3	4			N	R						
KM022	PD_curr_out7		3	4			N	R						
KM023	PD_curr_out8		3	4			N	R						
KM024	PD_curr_out9		3	4			N	R						
KM025	PD_curr_out10		3	4			N	R						
KM026	PD_curr_sens1		3	4			N	R						



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name	descr	unit	ptc	pfc	width	valid	categ	natur	curtx	parval	valpar	ctx_mnem	caf_mnem	txf_mnem
KM027	PD_curr_sens2		3	4			N	R						
KM028	PD_curr_sens3		3	4			N	R						
KM029	PD_curr_sens4		3	4			N	R						
KM030	PD_curr_sens5		3	4			N	R						
KM031	PD_curr_sens6		3	4			N	R						
KM032	PD_curr_sens7		3	4			N	R						
KM033	PD_curr_sens8		3	4			N	R						
KM034	PD_curr_sens9		3	4			N	R						
KM035	PD_curr_sens10		3	4			N	R						
KM036	FPU Equip status		2	16			N	R						
KM037	FPU TC1 status		2	8			S	R	1997			fpu tc status		1997
KM038	FPU TC2 status		2	8			S	R	1997			fpu tc status		1997
KM039	FPU TC1 set		3	12			N	R						
KM040	FPU TC2 set		3	12			N	R						
KM041	FPU TC1		3	12			N	R						
KM042	FPU TC2		3	12			N	R						
KM043	FPU LS1 sensor 1	K	3	12			N	R	1997			fpu LS temp	1997	
KM044	FPU LS1 sensor 2		3	12			N	R						
KM045	FPU LS1 sensor 3		3	12			N	R						
KM046	FPU LS1 sensor 4		3	12			N	R						
KM047	FPU LS1 sensor 5		3	12			N	R						
KM048	FPU LS1 sensor 6		3	12			N	R						
KM049	FPU LS1 sensor 7		3	12			N	R						
KM050	FPU LS1 sensor 8		3	12			N	R						
KM051	FPU LS2 sensor 1		3	12			N	R						
KM052	FPU LS2 sensor 2		3	12			N	R						



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name	descr	unit	ptc	pfc	width	valid	categ	natur	curtx	parval	valpar	ctx_mnem	caf_mnem	txf_mnem
KM053	FPU LS2 sensor 3		3	12			N	R						
KM054	FPU LS2 sensor 4		3	12			N	R						
KM055	FPU LS2 sensor 5		3	12			N	R						
KM056	FPU LS2 sensor 6		3	12			N	R						
KM057	FPU LS2 sensor 7		3	12			N	R						
KM058	FPU LS2 sensor 8		3	12			N	R						
KM059	FPU He level		3	12			N	R						
KM060	FPU He pressure		3	12			N	R						
KM061	FPU H/C temp 1		3	12			N	R						
KM062	FPU H/C temp 2		3	12			N	R						
KM063	FPU Heat switch1		3	12			N	R						
KM064	FPU Heat switch2		3	12			N	R						
KM065	FPU shutter stat		2	8			S	R	1996			fpu shutter status		1996
KM066	FPU compr status		2	8			S	R	1995			fpu compr status		1995
KM067	FPU gas flow 1		3	12			N	R						
KM068	FPU gas flow 2		3	12			N	R						
KM069	SRC Config		2	8			S	R	1994			src start flag		1994
KM070	SRC startup flag		2	8			S	R	1993			src configuration		1993
KM071	SRC Gunn voltage		3	4			N	R						
KM072	SRC Gunn current		3	4			N	R						
KM073	SRC Gunn power		3	4			N	R						
KM074	SRC Pav freq		3	4			N	R						
KM075	SRC Pav bias		3	4			N	R						
KM076	SRC Pav current		3	4			N	R						
KM077	SRC JPL bias1		3	4			N	R						
KM078	SRC JPL bias 2		3	4			N	R						



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name	descr	unit	ptc	pfc	width	valid	categ	natur	curtx	parval	valpar	ctx_mnem	caf_mnem	txf_mnem
KM079	SRC JPL bias 3		3	4			N	R						
KM080	SRC JPL current		3	4			N	R						
KM081	SRC Pav freq set		3	4			N	R						
KM082	SRC Pav V set		3	4			N	R						
KM083	SRC Pav I set		3	4			N	R						
KM084	SRC JPL V1 set		3	4			N	R						
KM085	SRC JPL V2 set		3	4			N	R						
KM086	SRC JPL V3 set		3	4			N	R						
KM087	SRC JPL I set		3	4			N	R						
KM088	SRC Safety		2	8			S	R	1992			src safety		1992
KM089	SRC Manual Par1		3	4			N	R						
KM090	SRC Manual Par2		3	4			N	R						
KM091	SRC Manual Par3		3	4			N	R						
KM092	SRC Manual Par4		3	4			N	R						
KM093	SRC Manual Par5		3	4			N	R						
KM094	SRC Manual Par6		3	4			N	R						
KM095	SRC Manual Par7		3	4			N	R						
KM096	SRC Manual Par8		3	4			N	R						
KM097	SRC Manual Par9		3	4			N	R						
KM098	SRC Manual Par10		3	4			N	R						

### 1.6. TXF: Textual calibration overview



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numbr	mnem	description	from	to	altxt
1995	fpu compr status	FPU compressor alarm			
			0	6	alarm
			7	7	ok
1996	fpu shutter status	FPU shutter			
			1	1	open
			2	2	close
			3	3	wobble
1997	fpu tc status	FPU TC status			
			0	0	stand by
			1	1	active
1999	pd_cmd_stat	PDU Command status			
			0	0	all off
			1	63	on
			64	65535	ool
1998	pd_fault_stat	PDU Fault status			
			0	0	ok
			1	65535	nok
1993	src configuration	SRC source configuration			
			0	0	unknown
			1	1	jpl
1992	src safety	SRC protection			
			0	0	safe
			1	1	lock
1994	src start flag	SRC indicate startup status			
			0	0	cold
			1	1	warm



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numbr	mnem	description	from	to	altxt

### 1.7. CAF: Numerical calibration overview

number	mnem	description	xvals	yvals
1997	fpu LS temp	Calibration LakeShore		
			0	0
			500	10
1998	pd_currentcal	Calibration current monitor		
			1000	100
			4000	500
1999	pd_voltcal1	Calibration voltage monitor		
			0	0
			4000	10

### 1.8. OCF : Monitor checks overview

name	mnem	nbchck	pos	type	lvalu	hvalu
KM000	PD_sw_cmd_status	1				
			1	S	50	200
			2	H	100	150

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name	mnem	nbchck	pos	type	lvalu	hvalu
KM066	FPU compr status	1				
			1	H	7	7

## 2. MIB\_Packets

### 2.1. CCF: command characteristics overview

cname	descr	bit	eltype	ellen	descr	pname	pname_mnem
KC000	FPU set OBS-ID						
		0	A	8	Function ID		
		8	A	8	Activity ID		
		16	A	16	Structure ID		
		32	A	32	Spare		
		64	E	32		KP001	OBS ID
KC001	FPU set BB-ID						
		0	A	8	Function ID		
		8	A	8	Activity ID		
		16	A	16	Structure ID		
		32	E	32		KP002	BB ID
KC002	FPU set status TC1						
		0	A	8	Function ID		
		8	A	8	Activity ID		



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cname	descr	bit	eltype	ellen	descr	pname	pname_mnem
		16	A	16	Structure ID		
		32	E	32		KP002	BB ID
		64	E	16		KP014	FP status TC1
KC003	FPU set status TC2						
		0	A	8	Function ID		
		8	A	8	Activity ID		
		16	A	16	Structure ID		
		16	E	32		KP002	BB ID
		48	E	16		KP016	FP status TC2
KC004	FPU set temp TC1						
		0	A	8	Function ID		
		8	A	8	Activity ID		
		16	A	16	Structure ID		
		16	E	32		KP002	BB ID
		48	E	16		KP015	FP TC1 set
KC005	FPU set temp TC2						
		0	A	8	Function ID		
		8	A	8	Activity ID		
		16	A	16	Structure ID		
		16	E	32		KP002	BB ID
		48	E	16		KP017	FP TC2 set
KC006	FPU set shutter						
		0	A	8	Function ID		
		8	A	8	Activity ID		
		16	A	16	Structure ID		
		16	E	32		KP002	BB ID

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cname	descr	bit	eltype	ellen	descr	pname	pname_mnem
		48	E	16		KP018	FP status shutter
KC007	FPU connection test						
KC008	PDU connection test						
KC009	Inconsistent data						
		0	A	8	Function ID		
		8	A	8	Activity ID		
		16	A	16	Structure ID		

## 2.2. PID: Packet identification overview

spid	descr	offby	offbi	name	name_mnem
132153345	HK with status word				
		20	0	KM000	PD_sw_cmd_status
132153346	PDU House-keeping				
		0	0	KM002	PD_volt_in1
		2	0	KM003	PD_volt_in2
		4	0	KM004	PD_volt_out0
		6	0	KM005	PD_volt_out1
		8	0	KM006	PD_volt_out2
		10	0	KM007	PD_volt_out3
		12	0	KM008	PD_volt_out4
		14	0	KM009	PD_volt_out5
		16	0	KM010	PD_volt_out6



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spid	descr	offby	offbi	name	name_mnem
		18	0	KM011	PD_volt_out7
		20	0	KM012	PD_volt_out8
		22	0	KM013	PD_volt_out9
		24	0	KM014	PD_volt_out10
		26	0	KM015	PD_curr_out0
		28	0	KM016	PD_curr_out1
		30	0	KM017	PD_curr_out2
		32	0	KM018	PD_curr_out3
		34	0	KM019	PD_curr_out4
		36	0	KM020	PD_curr_out5
		38	0	KM021	PD_curr_out6
		40	0	KM022	PD_curr_out7
		42	0	KM023	PD_curr_out8
		44	0	KM024	PD_curr_out9
		46	0	KM025	PD_curr_out10
		48	0	KM026	PD_curr_sens1
		50	0	KM027	PD_curr_sens2
		52	0	KM028	PD_curr_sens3
		54	0	KM029	PD_curr_sens4
		56	0	KM030	PD_curr_sens5
		58	0	KM031	PD_curr_sens6
		60	0	KM032	PD_curr_sens7
		62	0	KM033	PD_curr_sens8
		64	0	KM034	PD_curr_sens9
		66	0	KM035	PD_curr_sens10
132218883	FPU House-keeping				



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spid	descr	offby	offbi	name	name_mnem
		26	0	KM036	FPU Equip status
		28	0	KM037	FPU TC1 status
		29	0	KM038	FPU TC2 status
		30	0	KM039	FPU TC1 set
		32	0	KM040	FPU TC2 set
		34	0	KM041	FPU TC1
		36	0	KM042	FPU TC2
		38	0	KM043	FPU LS1 sensor 1
		40	0	KM044	FPU LS1 sensor 2
		42	0	KM045	FPU LS1 sensor 3
		44	0	KM046	FPU LS1 sensor 4
		46	0	KM047	FPU LS1 sensor 5
		48	0	KM048	FPU LS1 sensor 6
		50	0	KM049	FPU LS1 sensor 7
		52	0	KM050	FPU LS1 sensor 8
		54	0	KM051	FPU LS2 sensor 1
		56	0	KM052	FPU LS2 sensor 2
		58	0	KM053	FPU LS2 sensor 3
		60	0	KM054	FPU LS2 sensor 4
		62	0	KM055	FPU LS2 sensor 5
		64	0	KM056	FPU LS2 sensor 6
		66	0	KM057	FPU LS2 sensor 7
		68	0	KM058	FPU LS2 sensor 8
		70	0	KM059	FPU He level
		72	0	KM060	FPU He pressure
		74	0	KM061	FPU H/C temp 1

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spid	descr	offby	offbi	name	name_mnem
		76	0	KM062	FPU H/C temp 2
		78	0	KM063	FPU Heat switch1
		80	0	KM064	FPU Heat switch2
		82	0	KM065	FPU shutter stat
		83	0	KM066	FPU compr status
		84	0	KM067	FPU gas flow 1
		86	0	KM068	FPU gas flow 2

### 3. MIB\_Displays

#### 3.1. *DPF: alphanumeric display overview*

number	mnem	header	fldn	name	par_mnem
KA1002	fp_HK	FPU_Housekeeping			
			0	KM036	FPU Equip status
			7	KM059	FPU He level
			8	KM060	FPU He pressure
			9	KM061	FPU H/C temp 1
			10	KM062	FPU H/C temp 2
			11	KM063	FPU Heat switch1
			12	KM064	FPU Heat switch2
			13	KM065	FPU shutter stat



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number	mnem	header	fldn	name	par_mnem
			14	KM066	FPU compr status
			15	KM067	FPU gas flow 1
			16	KM068	FPU gas flow 2
KA1001	fp_temp	FPU_Temperatures			
			1	KM037	FPU TC1 status
			2	KM038	FPU TC2 status
			3	KM039	FPU TC1 set
			4	KM040	FPU TC2 set
			5	KM041	FPU TC1
			6	KM042	FPU TC2
			8	KM043	FPU LS1 sensor 1
			9	KM044	FPU LS1 sensor 2
			10	KM045	FPU LS1 sensor 3
			11	KM046	FPU LS1 sensor 4
			12	KM047	FPU LS1 sensor 5
			13	KM048	FPU LS1 sensor 6
			14	KM049	FPU LS1 sensor 7
			15	KM050	FPU LS1 sensor 8
			16	KM051	FPU LS2 sensor 1
			17	KM052	FPU LS2 sensor 2
			18	KM053	FPU LS2 sensor 3
			19	KM054	FPU LS2 sensor 4
			20	KM055	FPU LS2 sensor 5
			21	KM056	FPU LS2 sensor 6
			22	KM057	FPU LS2 sensor 7
			23	KM058	FPU LS2 sensor 8



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number	mnem	header	fldn	name	par_mnem
KA1000	pd_HK	PDU_housekeeping			
			1	KM000	PD_sw_cmd_status