

MAVEN STATIC Modes

APID	Name	En	Mass	Def	An	Misc	Byt	#/pkt	size	%ovhd
2A Hkp	Hkp	1	1	1	1	1	146	1.00	156	6.4
C0 64Ex2M	P1A	64	2	1	1	1	1	8.00	1040	1.5
C2 32Ex32M	P1B	32	32	1	1	1	1	1.00	1040	1.5
C4 4Ex64M	P1C	4	64	1	1	1	1	4.00	1040	1.5
C6 32Ex64M	P1D	32	64	1	1	1	1	0.50	1040	1.5
C8 32Ex16D	P2	32	1	16	1	1	1	2.00	1040	1.5
CA 16Ex4Dx16A	P3	16	1	4	16	1	1	1.00	1040	1.5
CC 32Ex32Mx8D	P4A	32	32	8	1	1	1	0.13	1040	1.5
CD 32Ex32Mx8D	P4A-burst	32	32	8	1	1	1	0.13	1040	1.5
CE 16Ex16Mx4Dx16A	P4B	16	16	4	16	1	1	0.06	1040	1.5
CF 16Ex16Mx4Dx16A	P4B-burst	16	16	4	16	1	1	0.06	1040	1.5
D0 32Ex8Mx4Dx16A	P4C	32	8	4	16	1	1	0.06	1040	1.5
D1 32Ex8Mx4Dx16A	P4C-burst	32	8	4	16	1	1	0.06	1040	1.5
D2 32Ex8Mx16A	P4D	32	8	1	16	1	1	0.25	1040	1.5
D3 32Ex8Mx16A	P4D-burst	32	8	1	16	1	1	0.25	1040	1.5
D4 2Mx4Dx16A	P4E	1	2	4	16	1	1	8.00	1040	1.5
D6 Events	Events	1	1	1	1	49152	1	0.02	1040	1.5
D7 Fst Hkp	Fst Hkp	1	1	1	1	512	2	1.00	1040	1.5
D8 Rate1	Rate1	1	1	1	1	12	1	16.00	208	7.7
D9 Rate2	Rate2	64	1	1	1	12	1	1.00	784	2.0
DA Rate3	Rate3	64	1	1	1	1	1	16.00	1040	1.5
DB 1024M	MassHist	1	1024	1	1	1	1	1.00	1040	1.5

% Orbit in mode

Survey Data Rate

NTE survey rate to s/c 14500

Burst Data Rate

Event rate 0

Orbit Averaged Survey Data Rate

NTE 2200

- 14 minutes at RAM rate (per 4.5 hr orbit)
- 21 minutes at CONIC rate (per 4.5 hr orbit)
- 3 minutes at SCAN rate (per 4.5 hr orbit)
- 232 minutes in PICKUP mode (per 4.5 hour orbit)
- 6 mode changes per orbit (generate events)

Notes: change the RTS_STASTART.py and Mode commands to include cmd.PFP_LOADTABLE(21,12,0x01) so that event readout is at 1 kbit/s rather than 2 kbit/s

Mode 2 x

APID	Ram	rate	Conic	rate	Pickup	rate	Scan	rate
2A Hkp	32	39.0	32	39.0	32	39.0	32	39.0
C0 64Ex2M	4	260.0	4	260.0	4	260.0	4	260.0
C2 32Ex32M	1.00E+10	0.0	1.00E+10	0.0	1.00E+10	0.0	1.00E+10	0.0
C4 4Ex64M	1.00E+10	0.0	1.00E+10	0.0	4	520.0	4	520.0
C6 32Ex64M	4	4160.0	4	4160.0	16	1040.0	16	1040.0
C8 32Ex16D	4	1040.0	4	1040.0	16	260.0	1.00E+10	0.0
CA 16Ex4Dx16A	4	2080.0	4	2080.0	1.00E+10	0.0	1.00E+10	0.0
CC 32Ex32Mx8D	32	2080.0	1.00E+10	0.0	1.00E+10	0.0	1.00E+10	0.0
CD 32Ex32Mx8D	4	16640.0	1.00E+10	0.0	1.00E+10	0.0	1.00E+10	0.0
CE 16Ex16Mx4Dx16A	1.00E+10	0.0	32	4160.0	1.00E+10	0.0	1.00E+10	0.0
CF 16Ex16Mx4Dx16A	1.00E+10	0.0	4	33280.0	1.00E+10	0.0	1.00E+10	0.0
D0 32Ex8Mx4Dx16A	1.00E+10	0.0	1.00E+10	0.0	512	260.0	1.00E+10	0.0
D1 32Ex8Mx4Dx16A	1.00E+10	0.0	1.00E+10	0.0	16	8320.0	1.00E+10	0.0
D2 32Ex8Mx16A	1.00E+10	0.0	1.00E+10	0.0	1.00E+10	0.0	16	2080.0
D3 32Ex8Mx16A	1.00E+10	0.0	1.00E+10	0.0	1.00E+10	0.0	4	8320.0
D4 2Mx4Dx16A	1.00E+10	0.0	1.00E+10	0.0	4	260.0	1.00E+10	0.0
D6 Events	2700	147.9	2700	147.9	2700	147.9	2700	147.9
D7 Fst Hkp	1.00E+10	0.0	1.00E+10	0.0	1.00E+10	0.0	1.00E+10	0.0
D8 Rate1	4	26.0	4	26.0	4	26.0	4	26.0
D9 Rate2	128	49.0	128	49.0	128	49.0	128	49.0
DA Rate3	4	130.0	4	130.0	4	130.0	4	130.0
DB 1024M	4	2080.0	4	2080.0	64	130.0	64	130.0
		0.051852		0.077778		0.859259		0.011111
	peak	11944.0		14024.0		2974.0		4274.0 NTE
								14500
		16640.0		33280.0		8320.0		8320.0
							survey	4460.9 NTE
								4400
							burst	10692.7 NTE
								11000

Mode 1 x

APID	Ram	rate	Conic	rate	Pickup	rate	Scan	rate	
2A	Hkp	32	39.0	32	39.0	32	39.0	32	39.0
C0	64Ex2M	4	260.0	4	260.0	16	65.0	16	65.0
C2	32Ex32M	1.00E+10	0.0	1.00E+10	0.0	1.00E+10	0.0	1.00E+10	0.0
C4	4Ex64M	1.00E+10	0.0	1.00E+10	0.0	1.00E+10	0.0	1.00E+10	0.0
C6	32Ex64M	4	4160.0	4	4160.0	64	260.0	64	260.0
C8	32Ex16D	4	1040.0	4	1040.0	64	65.0	1.00E+10	0.0
CA	16Ex4Dx16A	4	2080.0	4	2080.0	1.00E+10	0.0	1.00E+10	0.0
CC	32Ex32Mx8D	64	1040.0	1.00E+10	0.0	1.00E+10	0.0	1.00E+10	0.0
CD	32Ex32Mx8D	4	16640.0	1.00E+10	0.0	1.00E+10	0.0	1.00E+10	0.0
CE	16Ex16Mx4Dx16A	1.00E+10	0.0	64	2080.0	1.00E+10	0.0	1.00E+10	0.0
CF	16Ex16Mx4Dx16A	1.00E+10	0.0	4	33280.0	1.00E+10	0.0	1.00E+10	0.0
D0	32Ex8Mx4Dx16A	1.00E+10	0.0	1.00E+10	0.0	512	260.0	1.00E+10	0.0
D1	32Ex8Mx4Dx16A	1.00E+10	0.0	1.00E+10	0.0	16	8320.0	1.00E+10	0.0
D2	32Ex8Mx16A	1.00E+10	0.0	1.00E+10	0.0	1.00E+10	0.0	16	2080.0
D3	32Ex8Mx16A	1.00E+10	0.0	1.00E+10	0.0	1.00E+10	0.0	4	8320.0
D4	2Mx4Dx16A	1.00E+10	0.0	1.00E+10	0.0	16	65.0	1.00E+10	0.0
D6	Events	2700	147.9	2700	147.9	2700	147.9	2700	147.9
D7	Fst Hkp	1.00E+10	0.0	1.00E+10	0.0	1.00E+10	0.0	1.00E+10	0.0
D8	Rate1	4	26.0	4	26.0	4	26.0	4	26.0
D9	Rate2	128	49.0	128	49.0	128	49.0	128	49.0
DA	Rate3	4	130.0	4	130.0	4	130.0	4	130.0
DB	1024M	64	130.0	64	130.0	256	32.5	256	32.5
			0.051852		0.077778		0.859259		0.011111
	peak		8954.0		9994.0		991.5		2681.5 NTE
									14500
			16640.0		33280.0		8320.0		8320.0
							survey		2271.3 NTE
									2200
							burst		10692.7 NTE
									11000

