

ACIS Verification Summary Report

36-01510.035

Specification:	ACIS Contract End Item Specification
Requirement Number/Title:	3.1.3.2b Timing Mode (VRSD 3.1.3.2b-3)
Requirement Statement:	The data stream shall be time-stamped with the internal ACIS clock once per science frame.
Verification Method:	Demonstration
Procedure Number:	

Configuration:

ACIS + HRMA at XRCF, flight S/W rev. 1.4

Cycle Time:

Verification Discussion/Results

Verified by the `list-clock` script applied to the BEP and IRIG-B timestamps from XRCF testing. The last column of the attached table shows the drift of the BEP timestamps in units of $1:10^5$.

97/06/06
12:54:54

xrcfh.63.time.txt

/* Science Run 63 */

Exp	BepTime	PepTime	dFEP	dFrame	irigTime	dIrig	dIrig0
2	df34acef	01444a9f	0	291555	114:12114.096	0.000	0.000
3	df34acef	014963b7	334104	334104	114:12118.288	4.192	0.000
4	df34acef	014e7ccf	334104	334104	114:12121.629	3.341	0.000
5	df34acef	015395e7	334104	334104	114:12124.970	3.341	0.000
6	df34acef	0158aef7	334104	334104	114:12128.311	3.341	0.000
7	df34acef	015dc817	334104	334104	114:12131.652	3.341	0.000
8	df34acef	0162e12f	334104	334104	114:12134.993	3.341	0.000
9	df34acef	0167fa47	334104	334104	114:12138.334	3.340	-0.000
10	df34acef	016d135f	334104	334104	114:12141.675	3.341	-0.000
11	df34acef	01722c77	334104	334104	114:12145.016	3.341	-0.000
12	df34acef	0177458f	334104	334104	114:12148.357	3.341	-0.000
13	df34acef	017c5ea7	334104	334104	114:12151.698	3.341	-0.000
14	df34acef	018177bf	334104	334104	114:12155.039	3.341	-0.000
15	df34acef	018690d7	334104	334104	114:12158.380	3.341	-0.000
16	df34acef	018ba9ef	334104	334104	114:12161.721	3.341	-0.000
17	df34acef	0190c307	334104	334104	114:12165.062	3.341	-0.000
18	df34acef	0195dc1f	334104	334104	114:12168.403	3.341	-0.000
19	df34acef	019af537	334104	334104	114:12171.744	3.341	-0.000
20	df34acef	01a00e4f	334104	334104	114:12175.085	3.341	-0.000
21	df34acef	01a52767	334104	334104	114:12178.427	3.341	0.000
22	df34acef	01aa407f	334104	334104	114:12181.768	3.341	0.000
23	df34acef	01af5997	334104	334104	114:12185.109	3.341	0.000
24	df34acef	01b472af	334104	334104	114:12188.450	3.341	0.000
25	df34acef	01b98bc7	334104	334104	114:12191.791	3.341	0.000
26	df34acef	01bea4df	334104	334104	114:12195.132	3.341	0.000
27	df34acef	01c3bdff	334104	334104	114:12198.472	3.340	-0.001
28	df34acef	01c8d70f	334104	334104	114:12201.813	3.341	-0.001
29	df34acef	01cdf027	334104	334104	114:12205.154	3.341	-0.001
30	df34acef	01d3093f	334104	334104	114:12208.495	3.341	-0.001
31	df34acef	01d82257	334104	334104	114:12211.836	3.341	-0.000
32	df34acef	01dd3b6f	334104	334104	114:12215.178	3.341	-0.000
33	df34acef	01e25487	334104	334104	114:12218.519	3.341	-0.000
34	df34acef	01e76d9f	334104	334104	114:12221.860	3.341	-0.000
35	df34acef	01ec86b7	334104	334104	114:12225.201	3.341	-0.000
36	df34acef	01f19fcf	334104	334104	114:12228.542	3.341	-0.000
37	df34acef	01f6b8e7	334104	334104	114:12231.883	3.341	-0.000
38	df34acef	01fbd1ff	334104	334104	114:12235.224	3.341	-0.000
39	df34acef	0000eb17	334104	334104	114:12238.565	3.341	-0.000
40	df34acef	0006042f	334104	334104	114:12241.906	3.341	-0.000
41	df34acef	000b1d47	334104	334104	114:12245.247	3.341	-0.000
42	df34acef	0010365f	334104	334104	114:12248.588	3.341	0.000
43	df34acef	00154f77	334104	334104	114:12251.929	3.341	0.000
44	df34acef	001a688f	334104	334104	114:12255.271	3.341	0.000
45	df34acef	001f81a7	334104	334104	114:12258.612	3.341	0.000
46	df34acef	00249abf	334104	334104	114:12261.952	3.340	-0.001
47	df34acef	0029b3d7	334104	334104	114:12265.293	3.341	-0.001
48	df34acef	002ecce7	334104	334104	114:12268.634	3.341	-0.001
49	df34acef	0033e607	334104	334104	114:12271.975	3.341	-0.001
50	df34acef	0038ff1f	334104	334104	114:12275.316	3.341	-0.001
51	df34acef	003e1837	334104	334104	114:12278.657	3.341	-0.001
52	df34acef	0043314f	334104	334104	114:12281.998	3.341	-0.001
53	df34acef	00484a67	334104	334104	114:12285.339	3.341	-0.000
54	df34acef	004d637f	334104	334104	114:12288.680	3.341	-0.000
55	df34acef	00527c97	334104	334104	114:12292.021	3.341	-0.000
56	df34acef	005795af	334104	334104	114:12295.363	3.341	-0.000
57	df34acef	005caec7	334104	334104	114:12298.704	3.341	-0.000
58	df34acef	0061c7df	334104	334104	114:12302.045	3.341	-0.000
59	df34acef	0066e0f7	334104	334104	114:12305.386	3.341	-0.000
60	df34acef	006bfa0f	334104	334104	114:12308.727	3.341	-0.000
61	df34acef	00711327	334104	334104	114:12312.068	3.341	-0.000

62	df34acef	00762c3f	334104	334104	114:12315.409	3.341	-0.000
63	df34acef	007b4557	334104	334104	114:12318.749	3.340	-0.001
64	df34acef	00805e6f	334104	334104	114:12322.090	3.341	-0.001
65	df34acef	00857787	334104	334104	114:12325.431	3.341	-0.001
66	df34acef	008a909f	334104	334104	114:12328.772	3.341	-0.001
67	df34acef	008fa9b7	334104	334104	114:12332.114	3.341	-0.001
68	df34acef	0094c2cf	334104	334104	114:12335.455	3.341	-0.001
69	df34acef	0099dbe7	334104	334104	114:12338.796	3.341	-0.001
70	df34acef	009ef4ff	334104	334104	114:12342.137	3.341	-0.001
71	df34acef	00a40e17	334104	334104	114:12345.478	3.341	-0.001
72	df34acef	00a9272f	334104	334104	114:12348.819	3.341	-0.001
73	df34acef	00ae4047	334104	334104	114:12352.160	3.341	-0.001
74	df34acef	00b3595f	334104	334104	114:12355.501	3.341	-0.001
75	df34acef	00b82777	334104	334104	114:12358.842	3.341	-0.000
76	df34acef	00bd8b8f	334104	334104	114:12362.183	3.341	-0.000
77	df34acef	00c24a47	334104	334104	114:12365.524	3.341	-0.000
78	df34acef	00e7bdfb	334104	334104	114:12368.865	3.341	-0.000
79	df34acef	00ccd6d7	334104	334104	114:12372.207	3.341	-0.000
80	df34acef	00d1efef	334104	334104	114:12375.548	3.341	-0.000
81	df34acef	00d70907	334104	334104	114:12378.889	3.341	-0.000
82	df34acef	00dc221f	334104	334104	114:12382.229	3.340	-0.001
83	df34acef	00e13b37	334104	334104	114:12385.570	3.341	-0.001
84	df34acef	00e6544f	334104	334104	114:12388.911	3.341	-0.001
85	df34acef	00eb6d67	334104	334104	114:12392.252	3.341	-0.001
86	df34acef	00f0867f	334104	334104	114:12395.593	3.341	-0.001
87	df34acef	00f59f97	334104	334104	114:12398.934	3.341	-0.001
88	df34acef	00fab8af	334104	334104	114:12402.275	3.341	-0.001
89	df34acef	00fffd1c7	334104	334104	114:12405.616	3.341	-0.001
90	df34acef	0104eadf	334104	334104	114:12408.957	3.341	-0.001
91	df34acef	010a03f7	334104	334104	114:12412.299	3.341	-0.001
92	df34acef	010f1d0f	334104	334104	114:12415.640	3.341	-0.001
93	df34acef	01143627	334104	334104	114:12418.981	3.341	-0.001
94	df34acef	01194f3f	334104	334104	114:12422.322	3.341	-0.001
95	df34acef	011e6857	334104	334104	114:12425.663	3.341	-0.001
96	df34acef	0123816f	334104	334104	114:12429.004	3.341	-0.001
97	df34acef	01289a87	334104	334104	114:12432.345	3.341	-0.000
98	df34acef	012ab39f	334104	334104	114:12435.686	3.341	-0.000
99	df34acef	0132ccb7	334104	334104	114:12439.027	3.341	-0.000
100	df34acef	0137e5cf	334104	334104	114:12442.367	3.340	-0.001
101	df34acef	013cfee7	334104	334104	114:12445.708	3.341	-0.001
102	df34acef	014217ff	334104	334104	114:12449.050	3.341	-0.001
103	df34acef	01473117	334104	334104	114:12452.391	3.341	-0.001
104	df34acef	014c4a2f	334104	334104	114:12455.732	3.341	-0.001
105	df34acef	01516347	334104	334104	114:12459.073	3.341	-0.001
106	df34acef	01567c5f	334104	334104	114:12462.414	3.341	-0.001
107	df34acef	015b9577	334104	334104	114:12465.755	3.341	-0.001
108	df34acef	0160aef7	334104	334104	114:12469.096	3.341	-0.001
109	df34acef	0165c7a7	334104	334104	114:12472.437	3.341	-0.001
110	df34acef	016ae0bf	334104	334104	114:12475.778	3.341	-0.001
111	df34acef	016ff9d7	334104	334104	114:12479.119	3.341	-0.001
112	df34acef	017512ef	334104	334104	114:12482.460	3.341	-0.001
113	df34acef	017a2c07	334104	334104	114:12485.801	3.341	-0.001
114	df34acef	017f451f	334104	334104	114:12489.143	3.341	-0.001
115	df34acef	01845e37	334104	334104	114:12492.484	3.341	-0.001
116	df34acef	0189774f	334104	334104	114:12495.825	3.341	-0.001
117	df34acef	018e9067	334104	334104	114:12499.166	3.341	-0.001
118	df34acef	0193a97f	334104	334104	114:12502.506	3.340	-0.001
119	df34acef	0198c297	334104	334104	114:12505.847	3.341	-0.001
120	df34acef	019d9baf	334104	334104	114:12509.188	3.341	-0.001
121	df34acef	01a2f4c7	334104	334104	114:12512.529	3.341	-0.001
122	df34acef	01a80ddf	334104	334104	114:12515.870	3.341	-0.001
123	df34acef	01ad26f7	334104	334104	114:12519.211	3.341	-0.001
124	df34acef	01b2400f	334104	334104	114:12522.552	3.341	-0.001
125	df34acef	01b75927	334104	334104	114:12525.894	3.341	-0.001