

ITESRE

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MODEL (QM) ACCEPTANCE TESTS (June 2000) AT LABEN

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1 Introduction

1.1 Purpose and scope

In the period 15-22 June 2000 the acceptance test campaign has been carried out at Laben on the PICsIT Qualification Model (QM) integrated at Module (DFEE) Level and at Detector (PEB) Level.

The campaign started with the detector configured as for the PICsIT QM (April 2000) and the PICsIT TV (May 2000) test campaigns, where it consisted of one flight representative egg crate containing a complete module (512 pixels), and of one complete DFEE.

Since 20 June one PEB has been connected to the DFEE and the test set up was configured in order to gather the data from the PEB.

In both cases, the PICsIT Test Equipment (TE) was exploited in order to set and command the detector, and to gather the detector data. The Science Console was in charge of acquiring all the TC and the LBR TM packets (containing the instrument housekeeping) forwarded by the CCOE as well as all the HBR TC and TM packets (containing the science data) forwarded by the HBR SCOE.

The purpose of the present note is to provide information relevant for user of the *QM Acceptance Tests [June 2000] at LABEN permanent archive* consisting of 42 CDROMs (in 2 copies) where all the log, raw and FITS data files of the relevant measurements archived by the Science Console have been saved.

A summary of the set up of each measurement is presented in chapter 2.

As the no modification occurred, for all the information devoted to the format and content of the data, the reader should refer to the report of the previous PICsIT QM (April 2000) test campaign [1]; in which:

- the content and the format of the data produced by the instrument are given chapter 2;
- chapter 3 and Annex B details the format of the data buffers produced by the HBR SCOE with the instrument data, and archived in the raw archive by the Science Console;
- chapter 4 gives an overview on the raw data archiving and processing and on the FITS file production on the Science Console; further details on the content and the format of the FITS files are given in annex C;

Hence, the present document is limited to the information specific to this CDROM archive, namely:

- chapter 3 contains the whole directory of the permanent archive on CDROMs and on the Magneto Optical Cartridge which before re-initialisation have been backed up on DAT tapes.

A general description of the Science Console software architecture can be found in [2].

1.2 Reference Documents

- [1] M.Trifoglio, F.Gianotti, J.B.Stephen, The raw and the FITS data archive of the PICsIT Qualification Model (QM) Test Campaign (April 2000) at Laben, IN-IM-TES-RP-0039, Issue 2.0, Internal Report 279/00, June 2000.
- [2] M.Trifoglio, F.Gianotti, J.B.Stephen, G.Ferro, D.Visparelli, The Science Test Equipment for the INTEGRAL-PICsIT instrument, paper presented at the SPIE's Annual Meeting, 18-23 July 1999, Denver, Colorado USA.

1.3 Document History

Issue 1.0 first issue.

2. Measurement log

Summary information on each measurement are provided by the logbooks of the Science Console presented in the following section.

2.1 Science Console Logbook

The table hereafter contains the information noted on the logbook of the Science Console in order to provide for each measurement:

- Runid: the Run Identification number assigned to the measurement;
- Data: the date of the measurement;
- Source: the target: X-Ray source or background (Bkg);
- Exp. Time: the time duration of exposure;

Additional notes provides information on the environment and the instrument set up.

Run ID	Source	Measurement Date	Measurement Star Time	Measurement Stop Time	Notes
3244	Bkg	2000-06-05	19:41:35	20:12:32	
3245	Cs-137	2000-06-05	20:13:58	20:18:56	Collimated
3247	Cs-137	2000-06-05	20:20:53	20:50:54	Not Collimated @35 cm.; Thresholds B8/B6
3248	Cs-137	2000-06-05	20:51:56	21:21:56	Not Collimated @35 cm.
3249	Cs-137	2000-06-05	21:22:56	21:52:55	
3250	Y-88	2000-06-05	21:57:07	22:27:08	
3251	Y-88	2000-06-05	22:28:07	22:58:07	
3252	Y-88	2000-06-05	22:59:07	23:29:07	
3253	Y-88	2000-06-05	23:31:05	00:01:03	
3254	Y-88	2000-06-06	00:02:05	00:32:06	
3255	Y-88	2000-06-06	00:33:05	01:03:05	
3256	Y-88	2000-06-06	01:04:05	01:34:06	
3257	Y-88	2000-06-06	01:35:06	02:05:06	
3258	Bkg	2000-06-06	02:07:11	02:37:08	
3262	203-Hg	2000-06-15	16:29:44	16:59:50	Not Collimated @35 cm.
3263	Y-88	2000-06-15	17:02:46	17:32:45	Not Collimated @35 cm.
3264	Y-88	2000-06-15	17:33:45	18:03:45	
3265	Y-88	2000-06-15	18:08:10	18:38:09	
3266	Y-88	2000-06-15	18:39:10	19:09:09	
3267	Y-88	2000-06-15	19:10:10	19:40:10	
3268	Y-88	2000-06-15	19:41:10	20:11:09	
3269	Y-88	2000-06-15	20:12:10	20:42:11	
3270	Y-88	2000-06-15	20:43:10	21:13:10	
3271	Y-88	2000-06-15	21:14:10	21:44:11	
3272	Y-88	2000-06-15	21:45:10	22:15:11	
3273	Y-88	2000-06-15	22:16:10	22:46:10	
3274	Y-88	2000-06-15	22:47:10	23:17:12	
3275	Y-88	2000-06-15	23:18:10	23:48:10	
3276	Y-88	2000-06-15	23:49:11	00:19:11	
3277	Y-88	2000-06-16	00:20:11	00:50:09	
3278	Y-88	2000-06-16	00:51:11	01:21:09	

3279	Y-88	2000-06-16	01:22:11	01:46:27	Not Collimated @35 cm.
3284	Bkg	2000-06-16	09:26:51	09:56:48	Thresholds B8/B6
3285	22-Na	2000-06-16	10:03:02	10:26:37	
3286	22-Na	2000-06-16	10:26:38	10:33:01	
3287	22-Na	2000-06-16	10:34:01	10:57:37	
3288	22-Na	2000-06-16	10:57:38	11:04:01	
3289	22-Na	2000-06-16	11:05:01	11:28:38	
3290	22-Na	2000-06-16	11:28:39	11:35:01	
3291	22-Na	2000-06-16	11:36:01	11:59:38	
3292	22-Na	2000-06-16	11:59:39	12:06:01	
3293	22-Na	2000-06-16	12:07:01	12:30:38	
3294	22-Na	2000-06-16	12:30:39	12:37:01	
3298	22-Na	2000-06-16	13:30:18	13:53:36	
3299	22-Na	2000-06-16	13:54:52	14:01:31	
3300	203-Hg	2000-06-16	14:05:52	14:35:53	
3301		2000-06-16	14:41:19	15:01:51	
3302	137-Cs	2000-06-16	15:02:24	15:32:21	Collimated
3303	137-Cs	2000-06-16	15:37:26	16:07:34	Not Collimated @35 cm.
3304	137-Cs	2000-06-16	16:08:17	16:38:19	
3305	137-Cs	2000-06-16	16:38:56	17:08:57	
3306	137-Cs	2000-06-16	17:09:56	17:39:56	
3308		2000-06-19	08:48:50	08:54:32	
3309		2000-06-19	08:55:26	08:57:27	
3310	Bkg	2000-06-19	08:58:20	09:28:17	Thresholds B8/B6
3311	Bkg	2000-06-19	10:04:14	10:34:11	Thresholds B8/B9
3312	Bkg	2000-06-19	10:39:15	11:09:12	Thresholds B6/BC
3313	Bkg	2000-06-19	11:13:55	11:43:52	Thresholds C2/BF
3314		unknown	unknown	unknown	
3319	Bkg	2000-06-19	12:26:48	12:27:00	Thresholds C5/C2
3320	Bkg	2000-06-19	12:28:58	12:58:55	Thresholds C5/C2
3321	Bkg	2000-06-19	12:59:58	13:29:55	Thresholds C5/C2
3322	Bkg	2000-06-19	13:32:00	14:02:02	Thresholds C8/C5
3323	Bkg	2000-06-19	14:09:09	14:24:36	Thresholds C0/C8
3324	Bkg	2000-06-19	14:24:37	14:39:10	Thresholds C0/C8
3331	Bkg	2000-06-19	14:55:58	15:04:28	Only 4 PD Threshold E8
3332	Bkg	2000-06-19	15:05:01	15:10:18	Only 4 PD Threshold FF
3354	Bkg	2000-06-20	08:57:15	09:27:12	Thresholds B8/B6
3355	Bkg	2000-06-20	09:28:15	09:58:12	
3356	Bkg	2000-06-20	09:59:16	10:29:13	
3357	Bkg	2000-06-20	10:30:15	11:00:13	
3358	Bkg	2000-06-20	11:01:46	11:31:44	
3364	Bkg	2000-06-20	12:36:12	13:06:09	
3365	Bkg	2000-06-20	13:07:11	13:37:08	
3369	Bkg	2000-06-20	14:45:15	15:15:11	
3370	Bkg	2000-06-20	15:16:14	15:46:11	
3372	Bkg	2000-06-20	15:50:09	15:52:35	
3378		2000-06-20	17:22:37	17:38:18	PEB added
3380		2000-06-20	17:41:25	18:11:27	
3381		2000-06-20	18:15:05	18:33:27	
3382	137-Cs	2000-06-20	18:34:46	19:04:46	
3383	137-Cs	2000-06-20	19:05:46	19:35:47	

3384	137-Cs	2000-06-20	19:36:46	20:06:46	
3385	137-Cs	2000-06-20	20:07:47	20:37:45	
3386	137-Cs	2000-06-20	20:38:46	21:08:46	
3387	137-Cs	2000-06-20	21:09:46	21:39:48	
3388	137-Cs	2000-06-20	21:40:47	22:10:47	
3389	137-Cs	2000-06-20	22:11:46	22:41:47	
3390	137-Cs	2000-06-20	22:42:47	23:12:46	
3391	137-Cs	2000-06-20	23:13:47	23:43:48	
3392	137-Cs	2000-06-20	23:44:47	00:14:47	
3393	137-Cs	2000-06-21	00:15:47	00:45:45	
3394	137-Cs	2000-06-21	00:46:47	01:05:16	
3404	Bkg	2000-06-21	12:38:46	13:08:43	
3405	Bkg	2000-06-21	13:09:45	13:39:43	
3406	Bkg	2000-06-21	13:40:46	14:10:43	
3410	Bkg	2000-06-21	14:24:14	14:54:11	
3420	Bkg	2000-06-21	16:29:24	16:36:25	PEB removed

3. Permanent Archive Directory

3.1 The CDROM Archive

CDROM#	Run ID	Measurement Date	Measurement Star Time	Measurement Stop Time	Total number of events	Total size (bytes)	Packet Type
0083	3244	2000-06-05	19:41:35	20:12:32	1891312	45913688	T10.3a
0083	3245	2000-06-05	20:13:58	20:18:56	498628	12104160	T10.3a
0083	3247	2000-06-05	20:20:53	20:50:54	13911360	337303556	T10.3a
0084	3248	2000-06-05	20:51:56	21:21:56	13895364	336913384	T10.3a
0085	3249	2000-06-05	21:22:56	21:52:55	13879110	336520332	T10.3a
0085	3250	2000-06-05	21:57:07	22:27:08	9290666	225223256	T10.3a
0086	3251	2000-06-05	22:28:07	22:58:07	9289290	225203096	T10.3a
0086	3252	2000-06-05	22:59:07	23:29:07	9290666	225223256	T10.3a
0087	3253	2000-06-05	23:31:05	00:01:03	9258244	224571004	T10.3a
0087	3254	2000-06-06	00:02:05	00:32:06	9290666	225223256	T10.3a
0088	3255	2000-06-06	00:33:05	01:03:05	9274412	224830276	T10.3a
0088	3256	2000-06-06	01:04:05	01:34:06	9274412	224830240	T10.3a
0089	3257	2000-06-06	01:35:06	02:05:06	9258244	224571004	T10.3a
0089	3258	2000-06-06	02:07:11	02:37:08	1797572	43634076	T10.3a
0089	3262	2000-06-15	16:29:44	16:59:50	7061546	171219684	T10.3a
0090	3263	2000-06-15	17:02:46	17:32:45	9256352	224408388	T10.3a
0090	3264	2000-06-15	17:33:45	18:03:45	9257556	224425632	T10.3a
0091	3265	2000-06-15	18:08:10	18:38:09	9257556	224425632	T10.3a
0091	3266	2000-06-15	18:39:10	19:09:09	9257556	224425704	T10.3a
0092	3267	2000-06-15	19:10:10	19:40:10	9258158	224437224	T10.3a
0092	3268	2000-06-15	19:41:10	20:11:09	9257470	224425704	T10.3a
0093	3269	2000-06-15	20:12:10	20:42:11	9258158	224437224	T10.3a
0093	3270	2000-06-15	20:43:10	21:13:10	9241990	224178024	T10.3a
0094	3271	2000-06-15	21:14:10	21:44:11	9257384	224422824	T10.3a
0094	3272	2000-06-15	21:45:10	22:15:11	9257986	224434344	T10.3a
0095	3273	2000-06-15	22:16:10	22:46:10	9256352	224408424	T10.3a
0095	3274	2000-06-15	22:47:10	23:17:12	9258158	224437224	T10.3a
0096	3275	2000-06-15	23:18:10	23:48:10	9258158	224437224	T10.3a
0096	3276	2000-06-15	23:49:11	00:19:11	9255578	224394024	T10.3a
0097	3277	2000-06-16	00:20:11	00:50:09	9225650	223782092	T10.3a
0097	3278	2000-06-16	00:51:11	01:21:09	9241904	224041292	T10.3a
0097	3279	2000-06-16	01:22:11	01:46:27	7478646	181174368	T10.3a
0098	3284	2000-06-16	09:26:51	09:56:48	1817180	44111932	T10.3a
0098	3285	2000-06-16	10:03:02	10:26:37	21118590	512307556	T10.3a
0099	3286	2000-06-16	10:26:38	10:33:01	5646072	137607500	T10.3a
0100	3287	2000-06-16	10:34:01	10:57:37	20461894	501801388	T10.3a
0101	3288	2000-06-16	10:57:38	11:04:01	5629732	137345420	T10.3a
0102	3289	2000-06-16	11:05:01	11:28:38	21118590	512307628	T10.3a
0103	3290	2000-06-16	11:28:39	11:35:01	5576756	136361968	T10.3a
0104	3291	2000-06-16	11:36:01	11:59:38	21118590	512307628	T10.3a
0105	3292	2000-06-16	11:59:39	12:06:01	5645986	137470768	T10.3a
0106	3293	2000-06-16	12:07:01	12:30:38	21118590	512307628	T10.3a
0107	3294	2000-06-16	12:30:39	12:37:01	5645986	137470768	T10.3a
0108	3298	2000-06-16	13:30:18	13:53:36	20843132	505634936	T10.3a
0109	3299	2000-06-16	13:54:52	14:01:31	5866146	143125520	T10.3a
0109	3300	2000-06-16	14:05:52	14:35:53	6963936	168855612	T10.3a

0109	3301	2000-06-16	14:41:19	15:01:51	1487370	36098200	T10.3a
0109	3302	2000-06-16	15:02:24	15:32:21	2500192	60655276	T10.3a
0110	3303	2000-06-16	15:37:26	16:07:34	13683804	331789344	T10.3a
0111	3304	2000-06-16	16:08:17	16:38:19	13557556	329232140	T10.3a
0112	3305	2000-06-16	16:38:56	17:08:57	13618788	330211376	T10.3a
0113	3306	2000-06-16	17:09:56	17:39:56	13618788	330211340	T10.3a
0113	3308	2000-06-19	08:48:50	08:54:32	234866	5713852	T10.3a
0113	3309	2000-06-19	08:55:26	08:57:27	128828	3136376	T10.3a
0113	3310	2000-06-19	08:58:20	09:28:17	1862244	45201732	T10.3a
0113	3311	2000-06-19	10:04:14	10:34:11	2053164	49827448	T10.3a
0113	3312	2000-06-19	10:39:15	11:09:12	2277624	55262216	T10.3a
0113	3313	2000-06-19	11:13:55	11:43:52	3157662	76581444	T10.3a
0113	3314	unknown	unknown	unknown	0	34026403	T10.3a
0113	3319	2000-06-19	12:26:48	12:27:00	42484	688166	T10.3a
0114	3320	2000-06-19	12:28:58	12:58:55	5026872	121872324	T10.3a
0114	3321	2000-06-19	12:59:58	13:29:55	4918082	119238304	T10.3a
0114	3322	2000-06-19	13:32:00	14:02:02	11031736	267537584	T10.3a
0115	3323	2000-06-19	14:09:09	14:24:36	13799818	395206828	T10.3a
0116	3324	2000-06-19	14:24:37	14:39:10	10935244	266312548	T10.3a
0116	3331	2000-06-19	14:55:58	15:04:28	7205080	238971552	T10.3a
0117	3332	2000-06-19	15:05:01	15:10:18	4192758	172570880	T10.3a
0117	3354	2000-06-20	08:57:15	09:27:12	1837992	44618304	T10.3a
0117	3355	2000-06-20	09:28:15	09:58:12	1844012	44765228	T10.3a
0117	3356	2000-06-20	09:59:16	10:29:13	1845130	44852332	T10.3a
0117	3357	2000-06-20	10:30:15	11:00:13	1849086	44893482	T10.3a
0117	3358	2000-06-20	11:01:46	11:31:44	1843840	44761566	T10.3a
0117	3364	2000-06-20	12:36:12	13:06:09	1843668	44791916	T10.3a
0117	3365	2000-06-20	13:07:11	13:37:08	1846076	44827138	T10.3a
0117	3369	2000-06-20	14:45:15	15:15:11	1846506	44930362	T10.3a
0117	3370	2000-06-20	15:16:14	15:46:11	1852870	45048910	T10.3a
0117	3372	2000-06-20	15:50:09	15:52:35	152908	3721620	T10.3a
0117	3378	2000-06-20	17:22:37	17:38:18	907529	22038536	T10.3b
0118	3380	2000-06-20	17:41:25	18:11:27	1810352	43949372	T10.3b
0118	3381	2000-06-20	18:15:05	18:33:27	5890087	142973116	T10.3b
0118	3382	2000-06-20	18:34:46	19:04:46	9632404	233637192	T10.3b
0119	3383	2000-06-20	19:05:46	19:35:47	9648667	234030208	T10.3b
0119	3384	2000-06-20	19:36:46	20:06:46	9632400	233637156	T10.3b
0120	3385	2000-06-20	20:07:47	20:37:45	9632351	233637192	T10.3b
0120	3386	2000-06-20	20:38:46	21:08:46	9643016	233807112	T10.3b
0121	3387	2000-06-20	21:09:46	21:39:48	9648771	234033124	T10.3b
0121	3388	2000-06-20	21:40:47	22:10:47	9648794	234033124	T10.3b
0122	3389	2000-06-20	22:11:46	22:41:47	9632371	233637192	T10.3b
0122	3390	2000-06-20	22:42:47	23:12:46	9632378	233637156	T10.3b
0123	3391	2000-06-20	23:13:47	23:43:48	9648700	234030172	T10.3b
0123	3392	2000-06-20	23:44:47	00:14:47	9648676	234030244	T10.3b
0124	3393	2000-06-21	00:15:47	00:45:45	9632465	233637192	T10.3b
0124	3394	2000-06-21	00:46:47	01:05:16	5938359	143892576	T10.3b
0124	3404	2000-06-21	12:38:46	13:08:43	1803400	44146420	T10.3b
0124	3405	2000-06-21	13:09:45	13:39:43	1802822	44030010	T10.3b
0124	3406	2000-06-21	13:40:46	14:10:43	1802465	44136106	T10.3b
0124	3410	2000-06-21	14:24:14	14:54:11	1798887	44049694	T10.3b
0124	3420	2000-06-21	16:29:24	16:36:25	434730	10562048	T10.3a

3.2 The MO Archive

MO #	Run ID	Measurement Date	Measurement Star Time	Measurement Stop Time	Total number of events	Total size (bytes)	Packet Type
0024	3244	2000-06-05	19:41:35	20:12:32	1891312	45913688	T10.3a
0024	3245	2000-06-05	20:13:58	20:18:56	498628	12104160	T10.3a
0025	3247	2000-06-05	20:20:53	20:50:54	13911360	337303556	T10.3a
0025	3248	2000-06-05	20:51:56	21:21:56	13895364	336913384	T10.3a
0025	3249	2000-06-05	21:22:56	21:52:55	13879110	336520332	T10.3a
0026	3250	2000-06-05	21:57:07	22:27:08	9290666	225223256	T10.3a
0026	3251	2000-06-05	22:28:07	22:58:07	9289290	225203096	T10.3a
0026	3252	2000-06-05	22:59:07	23:29:07	9290666	225223256	T10.3a
0026	3253	2000-06-05	23:31:05	00:01:03	9258244	224571004	T10.3a
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0031	3286	2000-06-16	10:26:38	10:33:01	5646072	137607500	T10.3a
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0032	3288	2000-06-16	10:57:38	11:04:01	5629732	137345420	T10.3a
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0041	3385	2000-06-20	20:07:47	20:37:45	9632351	233637192	T10.3b
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0042	3387	2000-06-20	21:09:46	21:39:48	9648771	234033124	T10.3b
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0043	3404	2000-06-21	12:38:46	13:08:43	1803400	44146420	T10.3b
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0043	3420	2000-06-21	16:29:24	16:36:25	434730	10562048	T10.3a

3.3 The MO Archive Backup

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25	1	2
26	1	3
27	2	1
28	2	2
29	3	1
30	3	2
31	4	1
32	4	2
33	5	1
34	5	2
35	6	1
36	6	2
37	7	1
38	7	2
39	8	1
40	8	2
41	9	1
42	9	2
43	10	1