



SPIRE ICC
Monthly Progress Report
February 2004

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1. STAFFING

Pasquale Panuzzo (Padua) is now working with the SPIRE ICC.

2. MEETINGS AND THEIR CONCLUSIONS

Date	Location	Meeting	Comments
4-5 Feb	ESTEC	IA product & algorithm workshop	SG, MF attended
26 Feb	telecon	SPIRE software team telecon	

3. ACTIVITIES

3.1 General

- The Test Cryostat was cooled down at the end of January in preparation for the CQM testing. Warm functional tests were performed before and after the cool down and they were all successful. Because of problems with the On Board Software rejecting commands on an irregular basis it was decided to conduct all performance tests using the SCOS saved stack facility. (The latest version of OBS fixes these problems). For the functional tests we used TCL scripts from the TOPE system. The performance tests were also successfully carried out without any major problems. All test data were ingested into the SPIRE CQM database.
- First definition of AOTs.
- Writing of a SPIRE Data Processing document.
- Implementation of QLA SPRs and SCRs.
- Database maintenance, including performance tuning and schema evolution. The SPIRE database is now compatible with (at least) HCSS build #304.

3.2 Training

None.

3.3 HCSS activities

3.3.1 TC History/OOL

No activity this month. IST support is mostly ready.

3.3.2 Access

- SCR-0589: logging added
- SPR-0599: fields not cleared
- SCR-0617: query results sorted on time

3.3.3 Interactive Analysis

- Draft document "Specifying Data Products in the Herschel Interactive Analysis" written and distributed to IA workshop product group for comment.



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- A design and prototype of how products (all types) could be stored in the database was produced and distributed to IA workshop product group for comment. This work is in the grey area between IA and CSDT work.
- Also looking at the design of a user-friendly front-end API for the storing and retrieval of products. Again, this work is in the grey area between IA and CSDT work.

3.3.4 Data Frame Generator

The data frame classes and generator are under development by Pasquale Panuzzo. Prototypes are currently in existence.

3.3.5 Properties/Preferences

A new version of properties support is under development by Helen Bright. This is a substantial activity.

4. CRITICAL AREAS, CONCERNS, UPCOMING EVENTS

4.1 Critical Areas

- CUS scripts need to be developed over the next few weeks to define SPIRE observing modes and building blocks.

4.2 Problems and Concerns

- The TOPE debugger in SCOS 2.3e P3 was inadequate for conducting the CQM tests in an interactive fashion. We could not get it to work in a mode where we could continue test execution based on the successful of previous commands. We have been promised that this problem is fixed in SCOS 2.3e P5.
- With the exception of functional tests, the telemetry from the CQM tests conducted so far have no OBSId and BBId fields defined. Telemetry can only be usefully retrieved from the database by means of time-based queries.

4.3 Upcoming Events

Date	Location	Event	Comments
10 Mar	MPE	IA WG #20	SG, MF attending
11 Mar	MPE	HGSSE #25	SS attending
11 Mar	MPE	Product workshop follow-uo	SG attending
12 Mar	telecon	SPIRE s/w team telecon	
12 Mar	telecon	SPIRE observations team telecon	Kickoff telecon for this team
6-7 Apr	IC	ICC workshop	IA development kickoff
22-23 Apr	ESTEC	CSDT #19	

SG/SS, 3rd March 2004