

CEDAR Verification

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Prepared By: _____
S. Béland, COS Software Engineer, CU/CASA _____ Date _____

Reviewed By: _____
G. Blue, COS Software Engineer, CU/CASA _____ Date _____

Reviewed By: _____
S. Penton, COS Software Scientist, CU/CASA _____ Date _____

Approved By: _____
J. Andrews, COS Experiment Scientist, CU/CASA _____ Date _____

Approved By: _____
K. Brownsberger, COS Sr. Software Scientist, CU/CASA _____ Date _____

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Document



Center for Astrophysics & Space Astronomy
University of Colorado
Campus Box 593
Boulder, Colorado 80309

REVISIONS

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1. OVERVIEW

A need was identified early in the COS project for a tool to look at the different types of engineering data that will be generated during the many tests and certification of the different components that make up COS.

It was agreed that the tool would be built at CU/CASA and would be used for the early engineering tests and serve as a backup system during Integration and Testing of the complete instrument. The tool would be written as an IDL procedure to be run on a Sun Ultra-60 workstation running Solaris 2.7

2. REQUIREMENTS

The controlled document COS-08-0010 entitled "CEDAR Requirements" describes the requirements from which CEDAR was designed and built.

3. LEGACY

Due to the legacy built in COS from other projects (ACS, STIS etc), some tools already existed which filled some of the requirements described in the document mentioned above. Parts of ACSVU were used to build CEDAR, mainly for the data formats, diagnostic and telemetry related information. Portions of D. Lindler's "fuse_scan" were also used for the Science Data Display.

4. CONTROL PROCESS

Every file that make up the complete CEDAR package is under Revision Control (RCS) at CU/CASA. Any change to the code is documented as part of the RCS process and it is given a new version number and a time stamp when these changes were implemented. The computer disk where the package resides is backed up nightly.

5. TESTING

The testing of the code was done incrementally during the whole development phase of the tool. Every component of CEDAR was tested with engineering ACS data, real FUSE data and simulated COS data. The results were verified against results from legacy tools whenever possible (ACSVU) and against specifications otherwise (DM-06 document).

As of today, no real testing has been done for the Science Data Image Files since the data format for these files has not yet been completely established.