CSDS User Interface
ISDAT *cuistat* Client
User's Manual

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with change bars for changes introduced in issue 2.0

Contents

1 Introduction

1.1 Intended readership

This manual is intended for the user of the ISDAT *cuistat* client within the CSDS User Interface ISDAT Client package.

1.2 Applicability of the manual

The current version of the document applies to the ISDAT version 2.2, delivered as release 4 within the CSDS User Interface Project. It is valid only for UNIX, SUN Solaris workstations.

1.3 Purpose of the CSDS UI Data Manipulation software

The purpose of the CSDS User Interface Data Manipulation software package, of which *cuistat* is one component, is to provide the scientific community with software tools to manipulate and display Cluster CSDS summary and primary parameters. The *cuistat* client is used to display instrument status accompanying the physical data in the CDF file.

1.4 How to use this document

This document consist of an overview of the software in order to familiarize the user with the capabilities provided. The User Instructions section (3) should be read in connection with the first hands-on encounter with the *cuistat*. For the experienced user, a User reference section (4) is provided.

1.5 Related documents

An overview of the CSDS UI ISDAT Client Package is given in [Ref. 3]. It is assumed that the reader is familiar with the information given in that manual. The installation of the ISDAT client package is described in [Ref. 2].

1.6 Conventions and acronyms

In the following, we will use:

- *italics* to indicate exact names or expressions.
- Courier fonts to give command line expressions.
- > to indicate the terminal prompter.

Acronyms and abbrieviations used are described in Table 1.

Acronym	Meaning
CSDS	Cluster Science data System
CUI	CSDS User Interface
IRF-U	Institutet för Rymdfysik, Uppsalaavdelningen Swedish Inst. of Space Phys., Uppsala Division
ISDAT	Interactive Science Data Analysis Tool
UI	User Interface

Table 1: Acronyms and abbrieviations

1.7 Problem reporting

Problems should be reported to the CSDS National Data Centre.

2 Overview of the CSDS UI ISDAT cuistat client

Cuistat is an ISDAT client of class *special clients*, see [Ref. 3]. The *cuistat* client shows the instrument status for the time which the time manager, *cuitm*, (see [Ref. 4]) currently specifies.

3 User Instructions

3.1 Getting started

3.1.1 Setting up the environment and Initialization

Before starting the *cuistat* client it is assumed that:

- You are familiar with the X-window and mouse usage. If not, consult the appropriate manuals for your work station.
- You have logged in and have a CSDS *session manager* running. If not,see [Ref. 1] for instructions.
- The ISDAT client package has been properly installed and configured at your local workstation. If not, see [Ref. 2] for instructions.
- That you are a registered user at your *CSDS National Data Centre.*
- That a CSDS UI ISDAT server is running at your National Data Centre. If not, contact your National Data Centre for information.

- That a time manager is running at your local workstation. See document [Ref. 4] how to start the time manager.

3.1.2 Starting from the Time Manager, *cuitm*

Click with the mouse on the *clients* menu at the top of the *time manager* window (see [Ref. 4]). Select *csds* and under this menu select *cuistat*. The *cuistat* client will then start up as an own window.

3.1.3 Starting from a command line instruction

If you want to start the *cuistat* client from the command line, make sure that a data base handler and a time manager are running. Type

```
> cuistat
```

and the client window will appear on your screen, and it will automatically be adopted in a family of clients coordinated by a time manager, *cuitm*.

3.2 Using the CSDS UI cuistat client

The *cuistat* asks, at startup, the user to choose a parameter in the *Parameter* menu.

One can also set, by selecting the *format* option, the output format to decimal (default), hexadecimal or ascii. (for ascii format, not printable characters are represented by '.' character). The *format* dialog window disappears if the user selects its *Ok* or *Cancel* buttons. The selection is available after pressing *Ok* or *Apply* button.

Once selected, *cuistat* shows stat data from the CDF file that corresponds to the start time on the time manager (see Figure 1).

A progress information is displayed in the text during processing.

The first line displays the parameter identification; the second is the start time for the CDF file. The following lines display the time offset in seconds from start time in the first row, and the status data in the other rows.

The data in the text can be written to a file. Under *File* menu choose *save* and a file selector will pop up.

To exit the client, choose *Exit* under the *File* menu.

3.3 Common errors and probable causes

The most common errors are explained in [Ref. 3].

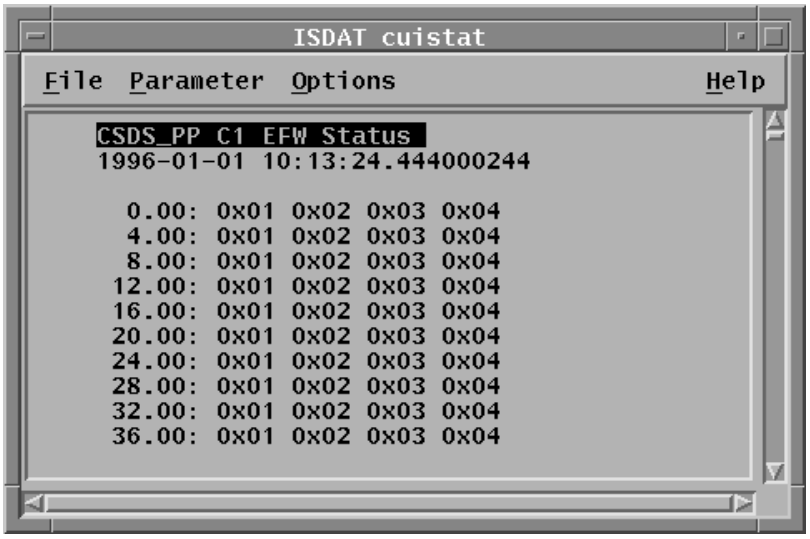

Figure 1: The cuistat client window

A number of error messages can appear in the text window of *cuistat*, such as *bad time*, *bad instrument*, *bad sensor* and so on. See the manual page of ISDAT server for an explanation.

4 User reference

This section is also available on-line.

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NAME
     cuistat - displays Cluster instrument status words in hex format

SYNOPSIS
     cuistat

ARGUMENTS
     Handles all generic ISDAT and X arguments.

DESCRIPTION
     Cuistat is an ISDAT client of type "special clients". It is
     designed for CSDS Summary (CSDS-SP) and prime (CSDS-PP) parameters
     data bases.

     The cuistat client can be called from the time manger, cuitm. It
     shows the instrument status words for the current time in
     hexadecimal format.

     The cuistat asks, at startup, the user to choose a parameter in the
     'Parameter' menu.

     One can also set, by selecting the format option, the output format to
     decimal (default), hexadecimal or ascii (for ascii format, not
```

```
     printable characters are represented by '.' character).
     The 'format' dialog window disappears if the user selects its 'Ok' or
     'Cancel' buttons. The selection is available after pressing 'Ok' or
     'Apply' button.

     Once selected, cuistat shows status data from the CDF file that
     corresponds to the start time on the time manager ( see Figure 1).
     A progress information (in percent) is displayed in the text during
     processing.

     The first line displays the parameter identification; the second is the
     start time for the CDF file.
     The following lines display the time offset in seconds from start time in
     the first row, and the status data in the other rows.

     The data in the text field can be written to a file. Under the 'File'
     menu choose 'save' and a file selector will pop up.

     To exit the client choose 'Exit' under the 'File' menu.

SEE ALSO
     cuitm.1, cuimeta.1
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A Reference Documents

[1] CSDS-UI software user manual. Technical Report DS-ESR-SM-0001, ESRIN, August 1994.

[2] CSDS User Interface, ISDAT Installation Manual. Technical Report DS-IRF-IM-0001, IRF-U, September 1995.

[3] CSDS User Interface, ISDAT User Manual. Technical Report DS-IRF-UM-0001, IRF-U, September 1995.

[4] CSDS User Interface, ISDAT cuitm User Manual. Technical Report DS-IRF-UM-0004, IRF-U, September 1995.