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# CSDS User Interface ISDAT Installation Manual

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with change bars for version 2.0 and 2.1

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# 1 Introduction

## 1.1 Intended readership

This manual is intended for the operator who intends to install the complete ISDAT package within the CSDS User Interface. This is anticipated to occur only within the CSDS User Interface development groups, at ESRIN in particular. For the installation at CSDS National data centres and users, other manuals should be consulted.

## 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 for UNIX, SUN Solaris workstations.

## 1.3 Purpose of the CSDS UI ISDAT software

The purpose of the CSDS User Interface ISDAT software package is to provide the scientific community with software tools to manipulate and display Cluster CSDS summary and primary parameters.

## 1.4 How to use this document

This document describes in a concise way the requisites and procedures for installing the CSDS User Interface ISDAT package starting from the distribution package. The use of the complete CSDS User Interface is described in [Ref. 1].

## 1.5 Conventions and acronyms

In the following, we will use *italics* to indicate exact names or expressions.

**Courier**

fonts will be used to give command line expressions. `>` will be used to indicate the terminal prompter.

Acronyms and abbreviations are explained in Table 1.

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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

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Table 1: Acronyms and abbreviations

## 1.6 Reference Documents

- [1] CSDS-UI software user manual. Technical Report DS-ESR-SM-0001, ESRIN, August 1994.
- [2] CSDS User Interface, ISDAT cuitm User Manual. Technical Report DS-IRF-UM-0004, IRF-U, September 1995.

## 1.7 Problem reporting

Problems should be reported to the CSDS National Data Centre.

# 2 Hardware and software requirements

## 2.1 Hardware requirements

The software has been run and tested on the following platforms:

- Sun SPARCstation 10 GX 8 bit colour - SunOS 5.4
- Sun SPARCstation 5 S24 8 and 24 bit colour - SunOS 5.4

Required free disk space is about 40 Mega-bytes.

## 2.2 Software requirements

The following software must be installed in your system:

- SparcCompiler 3.0 (SunOS 5.4 only)
- Sun OpenWindows 3.4
- *gzcat* or *gunzip*.
- *tar*

---

## 3 Installation Instructions

### 3.1 Introduction

A successful use of these instructions requires that:

- You have logged in with the appropriate privileges.
- You have a copy of the ISDAT tar file distribution.
- You have software tools listed in section 2.2 properly installed.

### 3.2 Unpacking the compressed tar archive

Archive *isdat\_csd-2.2.tar.gz*: contains the ISDAT system source. Top level directory created is *isdat*. To unpack type:

```
gzcat isdat_csd-2.2.tar.gz | tar xf -
```

### 3.3 Setting up the environment

In ISDAT 2.1 (Release 3) the ISDAT could be run from the source tree. As a consequence of a strict separation between CSDS-UI and WEC environments, this is no longer possible. This section is hence obsolete.

### 3.4 Building ISDAT

Building and installing ISDAT on a supported platform with all system software in standard locations is straight forward since it uses the *imake* facility to build the whole system.

Type:

```
cd isdat  
make isdat
```

This will create makefiles tailored to your system and compile all the source code. It will take up to 30 minutes depending on your system. You have now built the ISDAT system and are ready to use it. If you change any of the source files and you need to rebuild the system you only need to do a:

```
make
```

at the top level ( $\$$ ISDAT) or in the directory where you made the change if you just changed a client. If the default system paths in *isdat/config/cf/sitesun5.cf* doesn't match your system configuration you will need to either change your system configuration or edit the config file to fit your system.

## 3.5 Installing ISDAT

To install all executables and libraries in the `$CULPRD_ROOT` directory, type:

```
cd isdat
make install
```

After this step all necessary files to run ISDAT will be installed in `$CULPRD_ROOT` and the isdat source tree can be removed to save space.

## 3.6 Running ISDAT

To run the ISDAT server after a successful installation, type:

```
dbh &
and:
cuitm
```

to start the time manager, see [Ref. 2].