

Introduction

Overview

This introduction provides an overview of NCSA DataScope capabilities on the Macintosh. The organization and use of this manual are described and notational conventions explained.

About NCSA DataScope

DataScope is an interactive tool that displays and manipulates two-dimensional arrays of floating point numbers. DataScope allows you to generate several types of images from your scientific data, find the data values that correspond to points on the images, and apply formulas to create new datasets. The data processing functions of Data Scope allow you to:

- display array data in a spreadsheet
- scale and generate simple color images from the data
- enter and save comments and notations along with data
- apply calculations to data to generate derived datasets

System Requirements

To run DataScope, you will need a Macintosh II with 256-color capability, one megabyte RAM, and system 5.0 or newer.

NOTE: The number and size of images and datasets loaded at one time are limited by memory size. Two megabytes or more are recommended for best results.

Use of This Manual

Organization of This Manual

This manual is organized into four chapters. Each page of each chapter is given a unique number that consists of the chapter number, a period, and the number of that individual page (beginning with the first page of the chapter). For example, page 2.3 is the third page of the second chapter. Each chapter is divided into sections, and most sections are divided into subsections.

Manual Contents

This manual is organized into the following chapters:

Chapter 1, "Using DataScope," presents a tutorial to familiarize you with DataScope and its capabilities.

Chapter 2, "Data in DataScope," describes various data types that DataScope may manipulate, and discusses procedures of loading and saving different files.

Chapter 3, "Window Types," defines and demonstrates the diverse window actions and features of DataScope; and delineates the various special effects of which DataScope is capable.

Chapter 4, "DataScope and Other Programs," explains the limitations of DataScope, and the procedures to be followed when combining DataScope with other programs.

Typographic Conventions in This Manual

In descriptions of the various features and commands, a word or phrase that is used for the first time may be shown in *italics*. A definition or explanation of the term usually follows.

Portions of this manual will also refer to other sections or chapters of the manual where related topics are covered. Unless otherwise noted, cross-references are to sections in the chapter in which they occur.