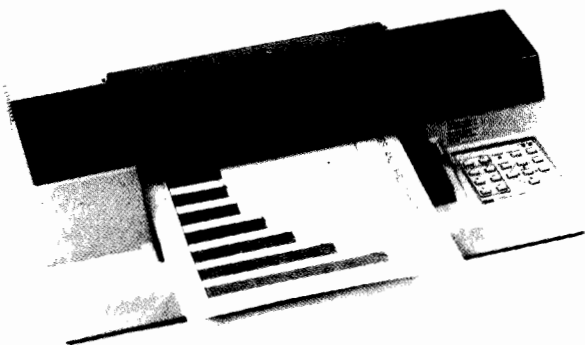


The Interactive Office

HP Decision Support Graphics/3000

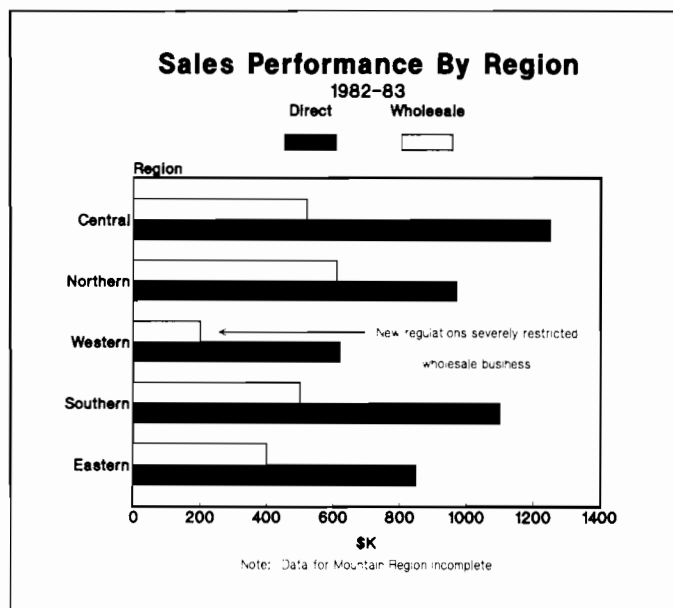


HP Decision Support Graphics/3000 (DSG/3000) is a graphics software subsystem for the HP 3000 that provides an interactive user interface to produce pie, line and bar charts, and scattergrams drawn from numerical information kept in any data file on the HP 3000.

It is designed for the more technically sophisticated office user or the EDP professional who needs flexibility in chart design, data file access, and/or programmatic access for the periodic generation of charts. With high-level program intrinsics, HP DSG/3000 can enhance a program which generates periodic reports to include customized charts.

Charts created with HP DSG/3000 may be plotted on paper or overhead transparency, printed on an HP dot matrix line printer, merged with a textual document for printing on an HP laser printer, transformed into 35mm slides (using HPDraw), or sent via electronic mail to other HP 3000 users.

HP DSG/3000 can improve productivity in your organization by significantly reducing the time and cost involved in the manual preparation of charts.



HP DSG/3000 Features

- Flexible, fill-in-the-blanks user interface
- Chart design is independent of data
- Data from any tabular file on the HP 3000 or via keyboard
- Full-capability chart design
- High-quality text fonts
- Color Palettes
- High-level program intrinsics
- Data transformation, subsetting and qualification
- Flexible workstation configurations
- Variety of output media
- Enhance HPEasyChart charts
- Charts included in HPDraw drawings for high-quality visual aid production
- Charts merged with textual documents*

*Merging only on the HP 2680A and HP 2688A laser printers. See HP 2680A Laser Printing System Data Sheet P/N 5953-7116 and HP 2688A Laser Printer Data Sheet P/N 5953-7136 for more information.

Flexible, Fill-in-the-Blanks User Interface

HP DSG/3000's interactive interface is designed for maximum ease of use. Chart design is guided by screen menus presented in logical sequence with fields to be filled in by the user. No special command language is needed — just fill in the blanks. And with the help of screen-labeled function keys, you can easily browse an entire chart file.

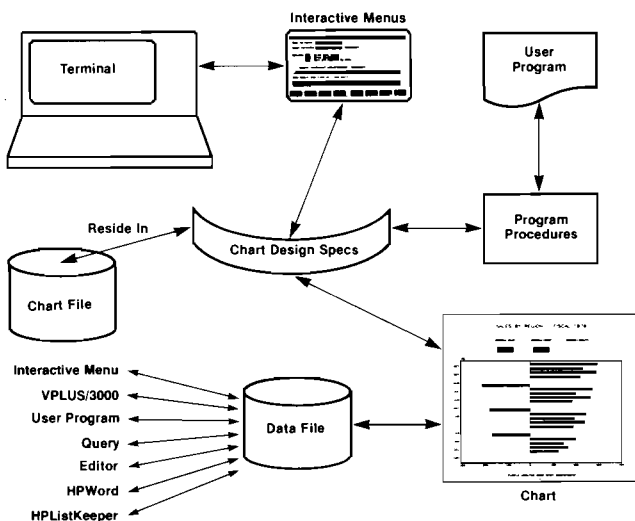
Chart Design is Independent of Data

To produce a graph, the user must specify both the chart attributes and the data file. A chart contains the skeletal characteristics of a chart such as chart type, title, legends and annotations. Several different charts can be stored in a single chart file. The data file contains the actual values of the variables to be plotted and is completely separate from the chart definition. The data file can be used to produce various chart types. It is also ideal for periodic use. Once designed, a chart can be saved in a graphics portfolio — the chart file. This allows the user to reuse the chart periodically or with revised data.

Data from any Tabular File on the HP 3000 or via Keyboard

The data file containing the values of data variables to be graphed is an MPE file that can be generated by:

- Query
- HP VPLUS/3000
- EDIT/3000
- TDP/3000
- HPWord
- HPListKeeper
- HP DSG/3000 interactive menu
- User report-generating programs



Full-Capability Chart Design

HP DSG/3000 provides a variety of features for producing high-quality, multi-color custom charts. Sensible defaults make chart production quick and easy. HP DSG/3000 can dynamically alter specifications such as axis scaling and labeling to adapt to changes in the data. Charts can be rotated. Titles, legends, labels, and annotations can be specified by size, font and color. Any of these items can be suppressed for special-purpose charts. Text may also be presented in French, German, Italian, Dutch, Swedish, Finnish or Spanish.

High-Quality Text Fonts

Three high-quality filled fonts in a variety of faces — light, medium, bold, italic and outline — give the user flexibility in designing text for high-impact charts.

Color Palettes

Fifteen color palettes — predefined combinations of colors that work well together — are available for use with DSG/3000 on an HP graphics terminal. (Colors will be visible however, only on a color terminal — HP 2627A, 2703A.) These palettes provide up to 64 colors for screen graphics and, using HPDraw, for 35mm slide output. Palettes also match (approximately) terminal colors to currently available HP plotter pen colors for plotter output. See HPDraw Data Sheet P/N 5953-7589 for more information.

High-Level Program Intrinsic

User application programs can create, modify and produce charts through the use of the HP DSG/3000 program interface. High-level intrinsic aids the programmer in efficient and easy implementation of graphics capabilities without having to learn a graphics language or complex protocol. HP DSG/3000 can enhance a program which periodically generates reports to include customized charts to clarify data or emphasize a point. All capabilities are accessible programmatically, including chart design and execution. These procedures can be called from any user-written program in COBOL, BASIC, FORTRAN, SPL, or Pascal.

Data Transformation, Subsetting, and Qualification

HP DSG/3000 has several features to control the variables and data to be graphed. These features can help transform numeric values into graphical formats that best communicate the information. Data transformation provides the capability to mathematically transform original data values and create new data. HP DSG/3000 will perform the necessary calculations and chart the resulting values. You can select from any combination of arithmetic operations and common functions — no programming is required! Data which is not needed in your analysis can be quickly eliminated through data subsetting. Hence, you can make several graphs from different subsets of the same data file. Qualification lets you uniquely identify individual dependent variables.

Flexible Workstation Configurations

HP DSG/3000 supports a wide spectrum of workstations to meet the needs and budget of the organization. Non-graphics terminals are supported for chart and data definition only i.e., no screen graphics.

Variety of Output

HP DSG/3000 charts can be plotted on paper or overhead transparency film, printed on an HP dot matrix line printer, merged in a textual document and printed on an HP laser printer, and transformed into 35mm slides (using HPDraw). Multiple charts can be produced entirely unattended on a scrollable plotter. These charts are cut and neatly stacked in the plotter tray for pick-up and distribution.

Enhancement of Charts Produced with HPEasyChart

Charts produced with HPEasyChart, chart graphics software, are upward compatible with HP DSG/3000. If a business professional produces a business chart with HPEasyChart and wants the same type of chart to accompany a periodically generated report, there's no need for redesign. See HPEasyChart Data Sheet P/N 5953-7588 for more information.

Charts as High-Quality Visual Aids

Charts can be included in a drawing created by HPDraw (presentation text, and figure design software) and thus benefit from the powerful and versatile presentation capabilities of the product. A combination of high-quality fonts, geometric shapes, simple illustrations, plus the powerful editing and placement features of HPDraw allow the user to create first-class visual aids on paper, transparencies or 35mm slides. There is no need to create the chart again! See HPDraw Data Sheet P/N 5953-7589 for more information. HP DSG/3000, HPDraw and HPEasyChart graphics subsystems are offered together at an attractive price as the HP 3000 Business Graphics Package.

Charts Merged with Textual Documents

Charts prepared using HP DSG/3000 can be merged in a textual document created using HP's document management software and printed on an HP laser printer. See HP 2680A Laser Printing System Data Sheet P/N 5953-7116, and HP 2688A Laser Page Printer Data Sheet P/N 5953-7136 for special requirements.

Hardware Environment

The minimum hardware system recommended to implement HP DSG/3000 is an HP 3000 Series III, 30, 33, 39*, 40*, 42*, 44*, 48*, 64*, and 68* with 1Mb of memory. However, the amount of memory actually needed is dependent on the overall system load and customer's expectations regarding performance and terminal response time. Consultation with your local HP sales office is recommended.

**Terminal baud rates of greater than 2400 are supported only on Series 39, 40, 42, 44, 48, 64, and 68.*

Terminals

DSG/3000 supports the terminals listed below:

For On-Screen Display and Chart Definition

HP 2623A
HP 2625A with graphics option 523
HP 2627A
HP 2628A with graphics option 523
HP 2647A/F
HP 2648A
HP 2703A
HP 150A personal workstation

For Chart Definition Only

HP 2382A
HP 2622A
HP 2624A/B
HP 2626A/W
HP 2641A
HP 2642A
HP 2645A



Supported Plotters

HP-IB

Configured as a shared peripheral from a 2625A or 2628A terminal (with option 523/426), a 2647A/F or 2648A graphics terminal, or a 150A personal workstation.

RS-232

Configured in "eavesdrop" mode between terminal/workstation and computer or can be directly connected to a terminal port.

Vector Pen Plotters

7225A/B with 17601A Personality Module
7470A option 002
7475A option 002
7580A option 002
7585A option 002
7580B
7585B

Vector Pen Plotters

7225A/B with 17603A or 17604A Personality Module
7470A option 001/300 (eavesdrop cable HP 17455A needed)
7475A option 001 (eavesdrop cable HP 17455A needed)
7580A option 001 (no eavesdrop)
7585A option 001 (no eavesdrop)
7580B
7585B

Thermal Plotter/Printer

7245A/B

Thermal Plotter/Printer

7240A

HP Computer Museum
www.hpmuseum.net

For research and education purposes only.

Supported Printers

HP 2608S Line Printer* (HP 2680 Graphics Package required).
 HP 2680A Laser Printing System* (HP 2680 Graphics Package, firmware, and memory upgrade required).
 HP 2688A Laser Page Printer*.

**For special requirements, please see HP 2608S Line Printer Data Sheet P/N 5953-7112; HP 2680A Laser Printing System Data Sheet P/N 5953-7116; and HP 2688A Laser Page Printer Data Sheet P/N 5953-7136.*

Software Environment

- MPE-IV Operating Environment
- HP VPLUS/3000 which is part of the Fundamental Operating Software

Supported Data Communications

- Multipoint Terminal Software
- DSN/DS

Ordering Information — HP 3000 Business Graphics Software

	DSG/3000 Product Nos.	HPEasyChart Product Nos.	HPDraw Product Nos.	HP 3000 Business Graphics Pkg.¹ Product Nos.
Software				
First copy of software product	32250A	32109A	32108A	32110A
Right-to-copy once (without sub-license)	32250M	32109M	32108M	32110M
Right-to-copy once (with sub-license)	32250R	32109R	32108R	32110R
Software Support				
CSS-Comprehensive Support Service	32250T	32109T	32108T	32210T
CSS for multiple sites	32250V	32109V	32108V	32210V
SSS-Software Subscription Service	32250S	32109S	32108S	32210S
MUS-Manual Update Service	32250Q	32109Q	32108Q	32210Q
Customer Training				
Self-Paced	22833B	(in Reference Guide)	22840B	N/A
Classroom	22834A	N/A	N/A	N/A
Documentation				
Reference Manual	32250-90001	32109-90001	32108-90001	N/A
Quick Reference Guide	32250-90002	N/A	N/A	N/A

¹HP 3000 Business Graphics Package includes HPEasyChart, DSG/3000, and HPDraw at a reduction in total price.