TDP

Technical Data

Powerful Text Formatting and Editing

TDP is a formatting mark-up language for the HP 3000 family of business computers, from the Series 30 through to the Series 950. A wide range of formatting commands controlling page layout and appearance may be added to a document and the results are seen at print time. Used in conjunction with Hewlett-Packard's high volume 2680A and high quality 2688A laser printers, TDP is the perfect tool for producing all kinds of documents, from mass mailings to specialized technical manuals incorporating graphics.

TDP also offers extensive text editing capabilities and is fully integrated with HP Spell for spelling verification and correction. Features such as the ability to execute MPE commands and programs from within TDP, and to integrate formatting capabilities into application programs, make TDP useful as a programmer's tool.

Corporate Publishing

TDP's wide range of formatting commands make it ideal for corporate publishing requirements, where complex page layout is as important as access to high quality printers capable of handling lengthy print runs. With TDP, writers can control the entire document preparation process from their desks, from writing the text to designing the page layout. House styles are easily accommodated, so users can concentrate on writing, and formatting commands may be inserted at any stage of the document's creation, allowing changes to be made right up to the last minute.

TDP makes the most of the HP 2680A and HP 2688A laser printers: the HP 2680A is ideal for producing large numbers of documents in-house, while the HP 2688A enables users to produce camera-ready copy for commercial printing processes. Up to 32 different type fonts may be printed on any one page, and users can determine the size, position and orientation of printing areas (logical pages), making TDP suitable for creating complex documents such as newsletters, manuals, sales proposals, statistical tables, legal documents and direct mailings.

Integrated Text and Graphics

The ability to merge graphics into the text is an essential capability for corporate publishing systems. TDP enables you to merge text with drawings and charts created with HP's powerful graphics products, such as the Graphics Gallery Collection on an HP Vectra Personal Computer (in which case the graphics must first be transferred to the HP 3000). You can then use TDP commands to specify the size, position and rotation of those drawings on the page.

Document Formatting

TDP's formatter goes beyond the capabilities of standard word processing. For example, embedded commands control features such as underlining, subscripts and superscripts, font types, page rotation and specification of the size of illustrations. Other commands offer automatic pagination; widow and orphan control; choice of output page size; the ability to centre and right- or left-justify titles; multiple line headings and footings (which can be changed on every page) and footnotes.

Text may be arranged in multiple columns (up to 16 on a page). A table of contents and table of figures are created automatically when you specify which text and/or figures are to be included: the tables are printed at the end of the document. An index can be created as a separate file allowing you to do your own editing or sorting before printing. The index is not printed with the document.

Mathematical and Scientific Expressions

One of the most tedious tasks associated with technical

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preparation is the formatting and editing of mathematical expressions. TDP handles superscripts, subscripts and fractions,[1] allowing expressions to be easily inserted or modified. Terms may be nested and can include compound fractions. For example:

$$\frac{A}{X^2_3 + Y^2} + \frac{X^i_j + Y_j}{A^3}$$

[1] These features are dependent on the capabilities of the printers.

Table Creation

You can create and revise tables and columnar documents in a variety of ways. Material may be formatted into columns as it is typed using tabs, or it may be formatted into columns after typing using the ALIGN command. Expressions can be stored and the stored expressions applied to columns. The row and column totals can be computed and the totals appended to the file. The material can also remain in the file as unformatted text and be formatted into columns at the time the document is printed. All three options can produce the same report. The text for the following table was originally entered without regard for spacing. Each line was then justified using the ALIGN command.[2]

Form Letters

Form letters can be created and stored with the changing information designated by specially defined variables called "macros". When you use the form letter, TDP prompts you for the variable information, and then prepares the document for final review and printing.

Built-in Calculator

TDP's calculator can add, subtract, multiply, divide and take square roots in hex, octal or decimal. Parentheses may be used to group terms. The result of any computation is retained and can be used in the next computation. The calculator can do sums and other calculations involving rows and columns that are part of a document using the TOTAL command. The results can be inserted into the document.

Automatic Hyphenation

Automatic Hyphenation can be applied to all or part of a document. You may request to see the results of each hyphenation and override it if you do not want a word split over two lines. TDP keeps an exception dictionary for words that do not follow standard hyphenation rules.

Text Editing

TDP's editing commands include the ability to move or copy sections of text around a document; to merge documents or parts of documents together (such as adding boiler plate information to a file); and to search for and replace words or phrases throughout the text.

The editing capabilities are complemented by the editing features of some HP workstations.[3] With the TDP SCREEN command, sections of a document can be displayed on the screen and edited with cursor keys. For example, the cursor can be positioned anywhere on the screen and characters added or removed with the character insert/delete keys. When all changes have been inserted, the SCREEN command is completed by pressing the ENTER key.

Mth	Project A	Project B	Total
4	2,676.27	1,462.22	4,138.49
5	124.95	2,221.44	2,346.39
6	23,381.32	132.60	23,513.92
	26,182.54	3,816.26	29,998.80

[2] A non-proportional font must be used when aligning tables and for fractions.

[3] Terminal text editing features require an HP block mode terminal and are not available on the character mode HP2621A/P and HP2635A/B terminals. Screen mode is supported up to 2400 baud.

USE Files
With the USE command, TDP provides a means of simplifying repetitive tasks or a way of adding a front-end interface for inexperienced users. A set of frequently used commands can be entered, stored in a "use file" and executed with a single USE command. The use file eliminates tedious input of multiple commands for creating standard documents. An easy way to create "use files" is by using the MONITOR command.

MPE Command Execution
From within TDP you can:
- Execute many MPE commands, such as LISTF, PURGE, STREAM, RUN, SAVE and SHOWJOB
- Run a number of compilers (SPL, COBOL, FORTRAN, PASCAL, COBOL II and RPG)
- Run other MPE subsystems, such as HP DeskManager, FCOPY, HP Draw, IFS/3000, IDSFORM, HP ListKeeper, as well as TDP itself.

These capabilities make TDP a very useful programmer's tool, enabling users to create, compile and run programs within TDP.

Spelling Verification and Correction
TDP's integrated interface to HP Spell provides a powerful spelling correction solution. HP Spell is based on The American Heritage Dictionary published by Houghton Mifflin and is available in American-English and British-English. Not only does HP Spell contain 84,000 words covering 99% of regular vocabulary, but it also allows you to create dictionaries of industry-specific words, making it ideal for checking large documents.

Security
For sensitive or company-private documents, you can store files with code words that scramble the contents and make it unreadable. The document can be deciphered only when it is retrieved with the code word. This level of security is in addition to that provided by the MPE operating system.

Key Features

Formatter
- Text enhancements
- Automatic justification and margin settings
- Automatic pagination
- User-specified page break
- Section numbering
- Date insertion
- Automatic Table of Contents and Table of Figures generation
- Automatic Index
- Footers, headers and footnotes
- Automatic hyphenation
- Equations formatting
- Multiple columns
- Graphics laser printing support
- Integrated text and graphics
- Macro definitions
- Character font selection (up to 32 fonts)
- Logical page selection (up to 32 pages)
- Space for "cut and paste"
- Forms printing
- Revision marking
- Widow and orphan watch
- Super- and subscript
- Half-line feed
- Bold and ghost type
- Underline

These features are dependent on the ability of the printer to handle them.

Editor
- Text editing (line or screen)
- Secure documents
- Tables manipulation
- Command files
- Spooler for non-system printers
- Setting of user editing environments
- Mass mailing facility
- Compiling programs
- Calculator functions
- Hyphenation exception dictionary utility
- Search and replace
- Space saving facility
- Proof marking
- Help system
- Command monitoring
- Flushing files
- Programmatic interface
- Integration with HP Spell
- Copy and move text to Hold file and insert in new location

Product Information

System Environment
TDP is supported on MPE V HP3000-based systems and in Compatability Mode on MPE XL-based HP 3000 systems.

Workstations

HP2621	HP2642A
HP2622A⁺	HP2644
HP2623A	HP2645A/F
HP2624A/B⁻	HP2647A
HP2625A	HP2648A
HP2626A/W	HP2382A
HP2627A⁺	HP150⁺
HP2628A	HP2392A
HP2640	HP2393
HP2641A	HP2397
HP700/92	HP2394
HP700/94	

Printers

HP2608A	HP2635A/B
HP2613A	HP2601A
HP2619A	HP9871A
HP2617A	HP2687A**
HP2631A	HP2680A·
HP2635B	HP2688A+

or any system spooled line printer (plus a number of third party daisy wheel printers).

Ordering Information

Product

Number	Description
36578A	TDP Right to Use

Documentation

36578-90004	TDP Reference Manual
36578-90005	Getting Started with TDP

Support

Hewlett-Packard offers a broad range of support services, which, with over 180 service and support facilities throughout the world, can meet the special needs that exist in your office. Hewlett-Packard has support representatives to provide local expertise and support for these needs.

36578A+SOO	Software Materials Subscription
36578A+WOO	Extended Materials Subscription
36578A+QOO	Manual Update Service
99105B+TOO	Account Management Support
99105B+HOO	Response Centre Support
99105B+VOO	Extended Family Support

*These workstations are not supported in screen mode.

**TDP offers limited support of the HP2687A treating it as a line printer with line spacing of 1.5, 2.5, 3.5 and 4.5 as well as using the base fonts on the HP2687A, and up to 63 lines per page. Other more advanced features of the HP2687A are not available (eg super/subscript and plug-in font cartridges).

+Only these workstations are supported by MPE XL.

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Technical information in this document is subject to change without notice.