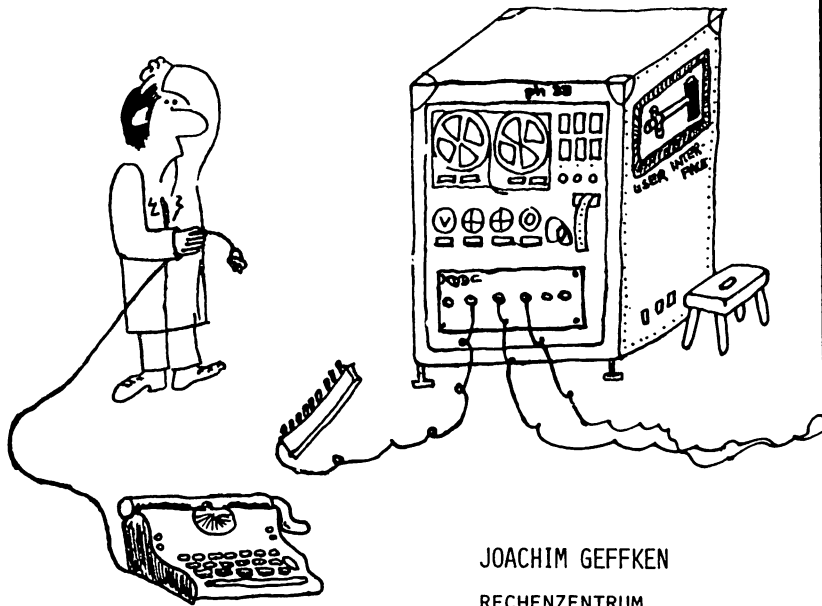


**Integrated Data - and**

**Textprocessing with hp3000**



JOACHIM GEFFKEN  
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GRÜNENSTRASSE 11/12  
2800 BREMEN 1

**Survey**

→ **Introduction**

→ **File access**

→ **Dataselection**

→ **Correction aid**

→ **Customizer**

→ **Supervisor**

→ **Interface**

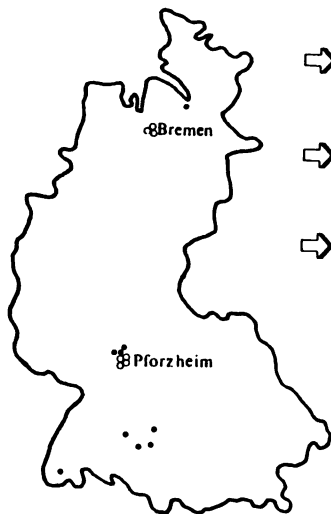


## Introduction

### The Herbert Seitz Company is ...

- ⇒ A REALTIME DATAPROCESSING SERVICE BUREAU
- ⇒ AND SOFTWAREHOUSE
- ⇒ AND HEWLETT PACKARD OEM

### with (1981) ...



- ⇒ 7 OWN HP 3000 (SERIES III AND 44) IN OUR BREMEN AND PFORZHEIM BRANCH
- ⇒ AND 10 HP 3000 SERIES III IN ASSOCIATED COMPANIES
- ⇒ WITH APPROX. 350 TERMINALS SPREAD OVER GERMANY CONNECTED VIA HARDWIRED LEASED LINES/DIALED LINES

Location of:

- own Computers
- Associated Companies

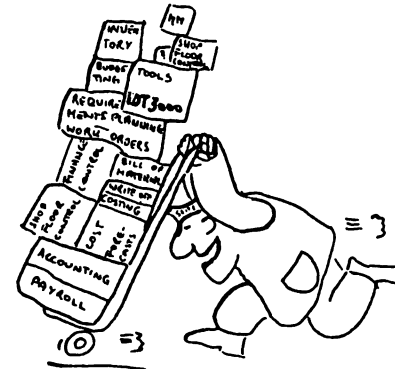
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## Introduction 2

WE PROVIDE OUR SERVICES IN GERMANY AND FRANCE FOR COMMERCIAL APPLICATIONS LIKE ...



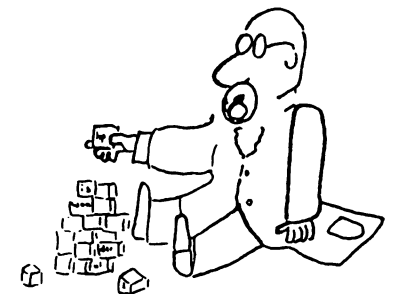
- ⇒ ACCOUNTING
- ⇒ PAYROLL
- ⇒ MATERIAL MANAGEMENT
- ⇒ SHOP FLOOR CONTROL, CAPACITY PLANNING
- ⇒ TOOLS FOR HP 3000 OPERATION, SOFTWARE-DESIGN AND DOCUMENTATION

OUR USERS ARE ...

- ⇒ WORKMEN
- ⇒ DATA TYPISTS, CLERKS
- ⇒ MANAGERS

ONLY A FEW OF THEM ...

- ⇒ ARE SPEAKING (HP-)ENGLISH
- ⇒ HAVE DP EXPERIENCE
- ⇒ HAVE SEEN ANY TERMINAL BEFORE



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## Introduction 3

THIS PRESENTATION IS A GENERAL DESCRIPTION OF SOME TECHNIQUES OF INTEGRATED DATA- AND TEXTPROCESSING ON HP3000 COMPUTERS AS THEY ARE IMPLEMENTED IN IDT3000. THIS IS NOT A COMPLETE PRODUCT OVERVIEW.

IDT3000 IS A DATA- AND TEXTPROCESSING SOFTWARE PACKAGE DESIGNED BY HERBERT SEITZ KG WITH:

- AN IMAGE TEXTDATABASE AND DICTIONARY
- POWERFUL TEXTEDITING AND FORMATTING FEATURES FOR BUSINESS LETTERS AND REPORTS
- FILE ACCESS TO IMAGE-, KSAM- AND MPE-FILES
- A SELF LEARNING DICTIONARY AND AN ON-LINE CORRECTION AID
- MULTILINGUAL SCREENS, MESSAGES AND HYPHENATION ALGORITHMS
- A CUSTOMIZER FOR CHARACTER SETS, TERMINAL- AND PRINTERTYPES, DATAFILES, DATADEFINITIONS AND OPERATING ENVIRONMENTS
- INTERFACES TO DATAPROCESSING AND DATACOMMUNICATION
- A DAILY REPORT OF THE OUTGOING LETTERS AND REPORTS
- A TRACKING MECHANISM FOR RENEWED SUBMISSIONS
- A BATCH PROCESSING INTERFACE

## CORRECTION AID / DICTIONARY (1)

GENERAL CONSIDERATIONS:

- THE USE OF A DICTIONARY MAKES ONLY SENSE IF THE VOCABULARY IS SUFFICIENT
- A VOCABULARY OF APPROXIMATELY 150.000 WORDS IS A REASONABLE COMPROMISE (VOCABULARY, DISC SPACE AND ACCESS TIME)
- A STATISTICAL EVALUATION OF THE VOCABULARY DURING THE SELECTION-PROCESS IS ADVISABLE
- THE GENERAL RULE OF THUMB FOR DATABASE CAPACITIES SHOULD BE KEPT IN MIND IN ORDER TO GAIN REASONABLE RESPONSE TIME (I.E. CHECKING OF 100 WORDS IN 2 - 3 SECS.)
- UNTIL THERE ARE BETTER ALGORITHMS AVAILABLE FOR PARSING, INTERPRETING AND UNDERSTANDING TEXT IN HIS CONTEXT IT IS NECESSARY TO MAKE THE DICTIONARY

⇒ USER ACCESSIBLE

AND

⇒ SELF LEARNING

SEE NEXT PAGES ...

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CORRECTION AID / DICTIONARY (3)

Form 2 Maintenance correction aid/ hyphenation exceptions IDT 3009

(1) Vocabulary into correction aid from 'text name'  (A)

(2) Only from section:  (B)

(3) Print correction aid totally

(4) Print hyphenation exceptions totally

(5) Vocabulary from MPE-file \_\_\_\_\_ (C)

into correction aid

(6) Vocabulary from MPE-file \_\_\_\_\_

into hyphenation exceptions file

(7) Copy correction aid into MPE-file (D)

(8) Copy hyphenation exceptions into MPE-file

Printer No.

Please enter required activity and press ENTER !

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NEW VOCABULARY MAY BE ENTERED FROM THE TEXTDATABASE (A) OR ONLY SOME SECTIONS (B) OR MPE-FILES (C). IF THE TEXT IS CAREFULLY CHECKED IN THE FIRST PERIOD OF USE THE DICTIONARY WILL BECOME MORE AND MORE SUFFICIENT FOR THE SPECIFIC APPLICATION. THE DICTIONARY MAY BE RESTORED TO MPE FILES (D) FOR BACKUP PURPOSES OR STATISTICAL EVALUATIONS.

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CORRECTION AID / DICTIONARY (2)

Form 4 Maintenance correction aid

word :  (A)

userfriendliness

(X) Copy display to printer

Please enter new word for Your dictionary !

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THE USER MAY ENTER OR UPDATE DICTIONARY ENTRIES WHENEVER NECESSARY (A).

CORRECTION AID / DICTIONARY (5)

Form 3 Maintenance of hyphenation-exceptions IDT 3000

Word : ABBREVIATION (A)  
 Hyphenation at :

(^) Normal hyphenation after this column  
 (K) for ck to k-k hyphenation (special feature for german)  
 (V) for consonant duplication (special feature for german)

existing definitions will be displayed

(X) Copy screen to lineprinter

Please mark where You want a hyphenation

THE USER MAY ENTER OR ALTER EXCEPTIONS FOR THE HYPHENATION ALGORITHM (A) WHEN NECESSARY. IN THIS WAY THE STANDARD PRECISION OF APPROX. 95% MAY BE INCREASED >99% FOR A SPECIFIC APPLICATION WITH ITS TYPICAL SET OF VOCABULARY AND SIZES OF THE FORMATTED TEXT.

CORRECTION AID / DICTIONARY (4)

Form 43 Text maintenance IDT 3000

Text name CORRDEMO Section A Password  Text-File

(1) text entry	(4) insert at		
(B) (2) print on printer	(5) modify from	(6) display from line	<input style="width: 50px;" type="text"/>
(A) (3) renumber	(7) delete all, or from line	to	<input style="width: 50px;" type="text"/>
(X) (X) Correction aid	(8) duplicate line	to	<input style="width: 50px;" type="text"/>
	(9) search pattern	from	<input style="width: 50px;" type="text"/>
	(0) copy	to	<input style="width: 50px;" type="text"/>

1 . 11 . 21 . 31 . 41 . 51 . 61 . 71

\*Start\* (C)

This is an example of the IDT3000 "self learning" dictionary. The words not contained in the dictionary are displayed in inverse video and the user is asked to check this words.

(D)

Please check your text and correct errors !

THE CORRECTION AID CAN BE ENABLED THROUGH THE USER (A) AND WORKS DURING TEXTENTRY OR UPDATE (B). UNKNOWN (NOT NECESSARY WRONG) WORDS ARE MARKED (C) AND THE USER IS PROMPTED FOR RECHECKING AND CORRECTING (D).

FILE ACCESS (1)

THE INTEGRATION OF DATA- AND TEXTPROCESSING REQUIRES:

- COMFORTABLE ACCESS TO DIFFERENT FILE TYPES (IMAGE, KSAM, MPE)
- USER ACCESS TO ALL FILES WITH READ ACCESS
- UNLIMITED USER ACCESS TO THE CONFIGURATION OF THE OPERATING ENVIRONMENT
- EASY MODIFICATION OF DATA FORMATS AFTER LAYOUTCHANGES
- DATA ACCESS VIA DATA DICTIONARIES

SEE EXAMPLES NEXT PAGES ...

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CORRECTION AID / DICTIONARY (6)

Form 6 Pattern Maintenance IDT 3000

No. Pattern (A) (B)  
300 \$(IDT 3000 the integrated Data- and Textprocessing Software\$)

Existing patterns will be displayed !

(X) Copy screen to lineprinter

Please enter or modify pattern!

COMPLEX TEXT EXPRESSIONS MAY BE DEFINED AS TEXT PATTERNS (A), IF NECESSARY WITH TEXT FORMATTING COMMANDS (B). PATTERNS ARE CALLED WITH THE COMMAND &nnn (nnn = PATTERN NO.),

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**FILE ACCESS (3)**

Form 5 Customizing data access (address-file and master-file 2) IDT 3000

A (A) Customizing address-file (B) Customizing master-file 2

In this form You may customize Your Address- file

You will have to describe each field (1 - 50). Existing descriptions will be shown.

Field No.	Fieldname (B)	Start Data (1) Col. Type	Size (2)	Format (3) (F)
12	(A) Name	019	28	

(1) P4-P12 packed numeric item (C) (D) (3) 'X' place for 1 alphanumeric character  
 C2-C10 binary coded numeric item 'Z' supress zeros  
 F alpha-numeric item

(2) Size : the last digit must be a sign character!  
 you may need one digit for a sign character!

(X) Copy screen to lineprinter

Please enter fieldformat!

UP TO 100 FIELDS PER USER AND/OR SESSION CAN BE CONFIGURED (A). THE NAME (B), POSITION (C), DATA TYPE (D), SIZE (E) AND OPTIONAL EDIT MASKS (F) CAN BE DEFINED AND MODIFIED WHEN NECESSARY.

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**FILE ACCESS (2)**

Form 2 File Configuration IDT 3000

Specification of Address-File: Filename KOSTAM

Filetype

(1) IMAGE-DB ADRSTA Password MGR  
 Searchitem ADRNR (Detail Dataset)

(A) (2) KSAM-File (Access via Primary-Key)  
 (3) MPE-File (sequential, only for Serial Letters)  
 (4) Address-File not used

Specification of the Order File : Filename [STTD]

Filetype

(1) IMAGE-DB PRODO1 Password MGR  
 Searchitem [DTNR] (Detail Dataset)

(B) (2) KSAM-File (Access via Primary-Key)  
 (4) Second Master-File not used

(X) Copy screen to lineprinter

Please enter data and press -ENTER-

THE USER MAY DEFINE OR CHANGE FILENAME AND TYPE FOR AN ADDRESSFILE (A) AND ANOTHER USER SELECTABLE FILE (B).

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FILEACCESS (5)

Form 4 Businessletters IDT 3000

Text name  Section  Password

(1) From unformatted text or (2) formatted file to printer No.

(1) A letter to addressee:  (B)

(A) (2) without accessing the address-file

(3) A letter to all addresses of the address-file

(4) Only selected addresses with field  field

(X) Using letterhead: \_\_\_\_\_ dated for renewed submission : \_\_\_\_\_

(X) With data of Order - Master-file of  (C)

(X) Margin alignment \_\_\_\_\_ Column (only printer 2501)

Your sign \_\_\_\_\_ Your letter \_\_\_\_\_ Our sign \_\_\_\_\_ Date \_\_\_\_\_

Please enter the required processing/selection options and press -ENTER- !

THE FILEACCESS (AND THE DATA SELECTION) CAN BE DONE DURING THE PRINTING /  
 SELECTING OF BUSINESS LETTERS (A). DATA MAY BE SELECTED AND INSERTED FROM  
 THE ADDRESSFILE (B) AS WELL AS FROM THE MASTER FILE 2 (C).

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FILEACCESS (4)

Form 2 Formatting the text IDT 3000

Text: name  Section  Password

(1) Formatting text (text file -> formatted text file) Columns  55

(A) (2) Print formatted text on printer No.

(X) Insert addressee of  1000003 (B)

(X) Add from master-file2 Orders from  935-001/21C (C)

(X) Blockformat required

Please enter the required options and press -ENTER- !

THE FILEACCESS (AND THE DATA SELECTION) CAN BE DONE DURING THE TEXT FORMATTING (A).  
 DATA MAY BE SELECTED AND INSERTED FROM THE ADDRESSFILE (B) AS WELL AS FROM THE  
 MASTER FILE 2 (C).

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CUSTOMIZER (1)

Form 1 Customizer for Hardwareconfiguration IDT 3000

**(B)** Char.Set : (1) ASCII/UK (2) Deutsch(ISO) (3) Francais (4) Espanol  
**(C)** Language : (1) English (2) Deutsch (3) Francais (4) Espanol

**(X)** Auditfile used. **(E)** addressee in field No.  **(D)**  
 **(X)** Database for Hyphenation-Exceptions used  
 **(X)** Correction-Aid used

<p><b>(F)</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Printer</th> <th>Type</th> <th>Device-Class</th> </tr> </thead> <tbody> <tr><td>1</td><td></td><td>P2601 <b>(A)</b></td></tr> <tr><td>3</td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td></tr> <tr><td>7</td><td></td><td>34</td></tr> </tbody> </table> <p>(A) Terminal-Printer  (C) Matrixprinter 2608/2631 as Hardcopy  (E) Daisywheelprinter 2601 as Hardcopy  (H) Olympia ESW100RD as Hardcopy</p>	Printer	Type	Device-Class	1		P2601 <b>(A)</b>	3			5			7		34	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Printer</th> <th>Type</th> <th>Device-Class</th> </tr> </thead> <tbody> <tr><td>2</td><td></td><td>P</td></tr> <tr><td>4</td><td></td><td></td></tr> <tr><td>6</td><td></td><td>P2601</td></tr> <tr><td>8</td><td></td><td>35</td></tr> </tbody> </table> <p>(B) Lineprinter 2613/2617/2619  (D) as Device  (F) as Device  (G) Laserprinter 2680</p> <p><input type="checkbox"/> <b>(X)</b> Copy screen to lineprinter</p>	Printer	Type	Device-Class	2		P	4			6		P2601	8		35
Printer	Type	Device-Class																													
1		P2601 <b>(A)</b>																													
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4																															
6		P2601																													
8		35																													

Please enter data and press -ENTER-

THE INTEGRATION OF DATA- AND TEXTPROCESSING REQUIRES THE OPTION OF TEXTPROCESSING WITHIN THE EXISTING DATAPROCESSING (HARDWARE-)ENVIRONMENT **(A)** INCLUDING CHARACTER SETS **(B)**, LANGUAGES **(C)**, DATA LAYOUTS **(D)** AND THE PROCESSING ENVIRONMENT **(E) + (F)**.

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DATA SELECTION (3)

Form 183 Text maintenance IDT 3000

Text name DEMOBER0 Section 82 Password  Text-File

(1) text entry (4) insert at  
(2) print on printer  (5) modify from  
(3) renumber (6) display from line   
(7) delete all, or from line \_\_\_\_\_ to  
(8) duplicate line \_\_\_\_\_ / \_\_\_\_\_ to  
(9) search pattern \_\_\_\_\_ from  
**(X)** Korrektur (0) copy \_\_\_\_\_ / \_\_\_\_\_ to

11 21 31 41 51 61 71

**(A)** -Start\*  
This is an example of IDT300's datainsertion feature.  
Dear Mr. &A12.  
Thank You for Your letter and Your interest in our new &B31. The price of &B35 is very attractive.  
Our local representative Mr. &D\$SALESMAN will contact You within the next few days and provide further information for You.  
Sincerely Yours \$R\$R&Vsigner\$R&Vtitle **(B)**

DATA ELEMENTS CAN BE DEFINED BY IDT3000 INTERNAL FIELD NUMBERS **(A)** (REFERRING TO THE CUSTOMIZED FILE-ENVIRONMENT) OR BY DATA ELEMENT NAMES OF A DATA DICTIONARY **(B)** (DICTIONARY 3000).

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