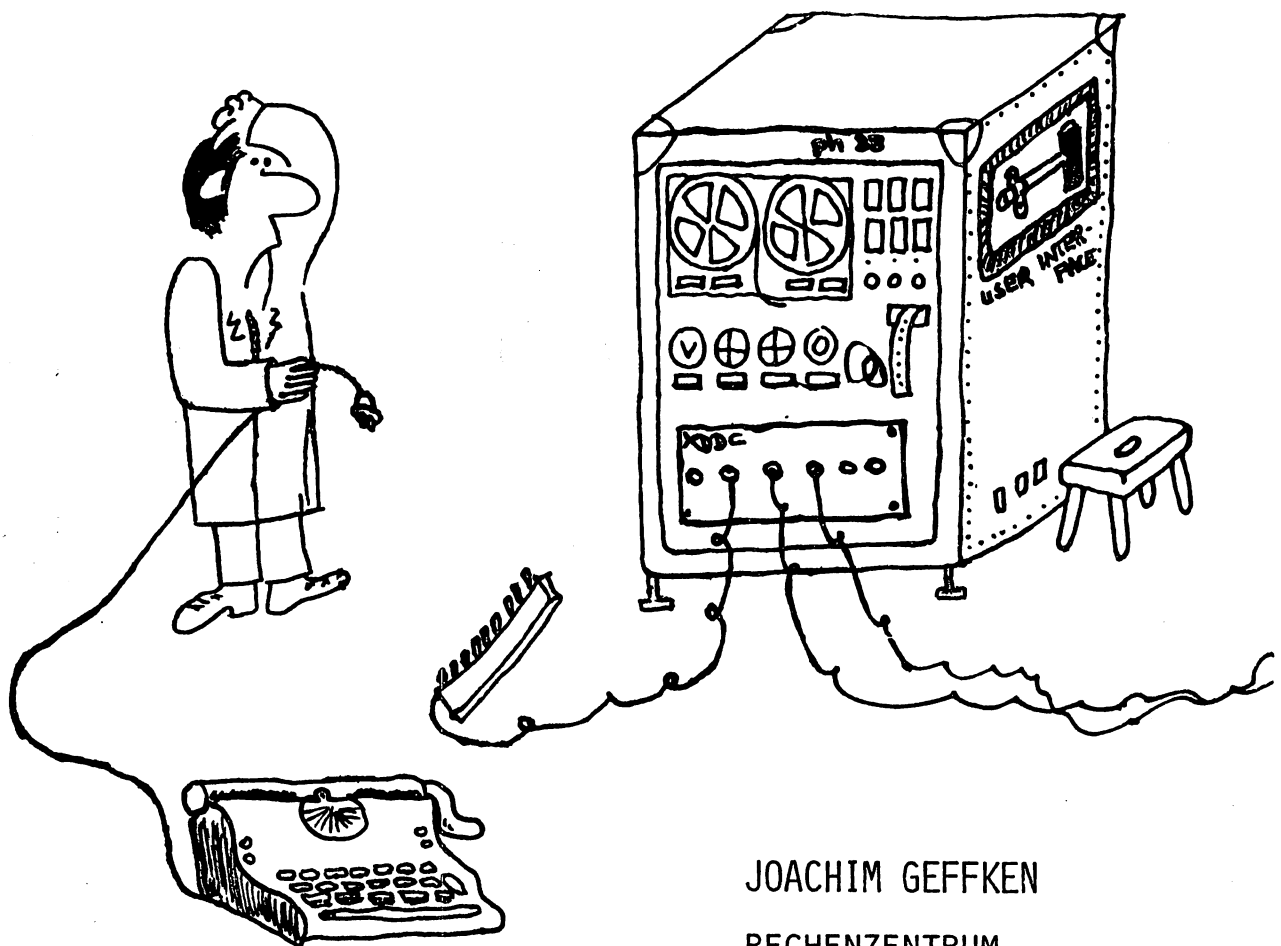


Integrated Data - and

Textprocessing with hp3000



JOACHIM GEFFKEN

RECHENZENTRUM

HERBERT SEITZ KG

GRÜNENSTRASSE 11/12

2800 BREMEN 1

Survey

⇒ **Introduction**

⇒ **File access**



⇒ **Dataselection**

⇒ **Correction aid**

⇒ **Customizer**

⇒ **Supervisor**

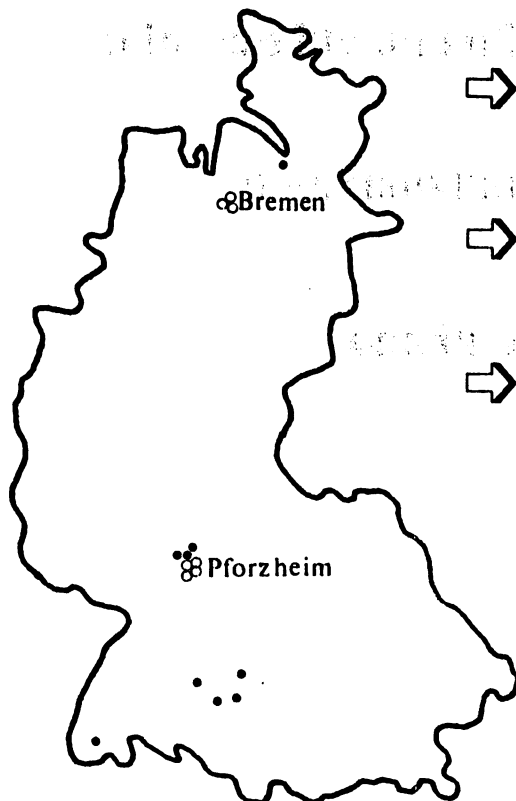
⇒ **Interface**

Introduction

The Herbert Seitz Company is ...

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

with (1981) ...



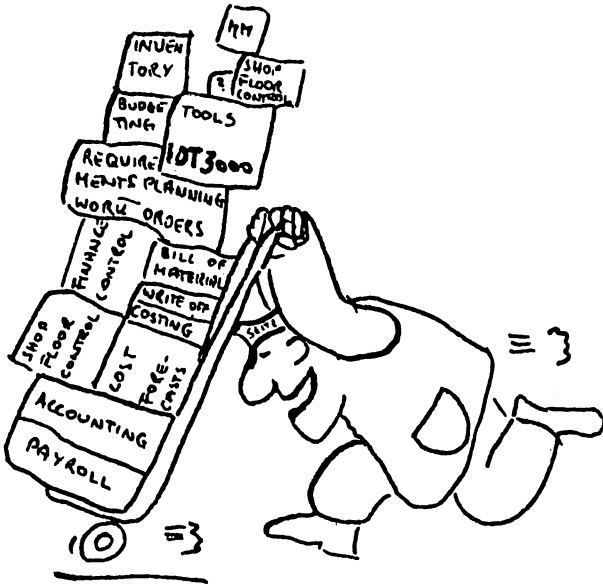
- ➡ 7 OWN HP 3000 (SERIES III AND 44)
IN OUR BREMEN AND PFORZHEIM BRANCH
- ➡ AND 10 HP 3000 SERIES III IN
ASSOCIATED COMPANIES
- ➡ WITH APPROX. 350 TERMINALS SPREAD
OVER GERMANY CONNECTED VIA HARD-
WIRED LEASED LINES/DIALED LINES

Location of:

- own Computers
- Associated Companies

Introduction 2

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



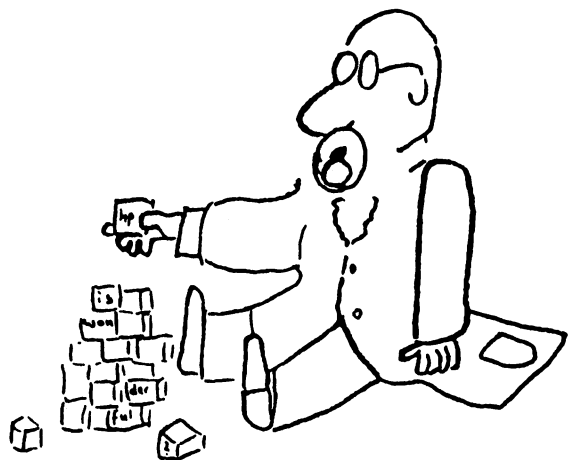
- ➡ ACCOUNTING
- ➡ PAYROLL
- ➡ MATERIAL MANAGEMENT
- ➡ SHOP FLOOR CONTROL, CAPACITY PLANNING
- ➡ TOOLS FOR HP 3000 OPERATION, SOFTWARE-DESIGN AND DOCUMENTATION

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



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 ...

CORRECTION AID / DICTIONARY (2)

Form 4 Maintenance correction aid

word :



userfriendliness

☐ (X) Copy display to printer

Please enter new word for Your dictionary !

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

CORRECTION AID / DICTIONARY (3)

Form 2 Maintenance correction aid/ hyphenation exceptions IDT 3000

- ☐ (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 !

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.

CORRECTION AID / DICTIONARY (4)

Form 143	Text maintenance		IDT 3000
Text name <u>CORRDEMO</u>		Section <u>A1</u>	Password <u> </u>
		Text-File	
<input type="checkbox"/> (1) text entry	(4) insert at		
<input type="checkbox"/> (2) print on printer	(5) modify from		
<input type="checkbox"/> (3) renumber	(6) display from line <u> </u>		
	(7) delete all, or from line <u> </u>	to	
	(8) duplicate line <u> </u> / <u> </u>	to	
	(9) search pattern <u> </u>	from	
<input checked="" type="checkbox"/> (X) Correction aid	(0) copy <u> </u> / <u> </u>	to <u> </u>	
1 . 11 . 21 . 31 . 41 . 51 . 61 . 71			
<p>*Start*</p> <p>This is an <u>example</u> of the IDT3000 "self learning" dictionary. The words not <u>contained</u> in the <u>dictionary</u> are displayed in inverse video and the user is asked to check this words.</p>			
<p>D</p>			
<p>Please check your text and correct errors !!</p>			

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**.

CORRECTION AID / DICTIONARY (5)

Form 3

Maintenance of hyphenation-exceptions

IDT 3000

Word : ABBREVIATION
 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 Ⓐ 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 (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.).

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 ...

FILE ACCESS (2)

Form 2	File Configuration	IDT 3000
Specification of Address-File: Filename <u>KDSTAM</u>		
Filetype		
<input type="checkbox"/> (1)	IMAGE-DB <u>ADRSTA</u>	Password <u>MGR</u>
	Searchitem <u>ADRNR</u>	(Detail Dataset)
<input checked="" type="radio"/> (A) (2)	KSAM-File (Access via Primary-Key)	
(3)	MPE-File (sequential, only for Serial Letters)	
(4)	Address-File not used	
Specification of the <u>Order</u> File : Filename <u>ISTTD1</u>		
Filetype		
<input type="checkbox"/> (1)	IMAGE-DB <u>PRODOT</u>	Password <u>MGR</u>
	Searchitem <u>IDTNR</u>	(Detail Dataset)
<input checked="" type="radio"/> (B) (2)	KSAM-File (Access via Primary-Key)	
(4)	Second Master-File not used	
<input type="checkbox"/> (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).

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.	Size (2)	Format (3) (F)
12	(A) Name	019	28	
<p>(1) P4-P12 packed numeric item (C) (D) (E) (3) 'X' place for 1 alphanumeric character C2-C10 binary coded numeric item F alpha-numeric item 'Z' suppress zeros</p>				
<p>(2) Size : the last digit must be you may need one digit for a sign character! an 'X' for a sign character (numeric-item)</p>				
<p><input type="checkbox"/> (X) Copy screen to lineprinter</p>				
<p>Please enter fieldformat!</p>				

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.

FILEACCESS (4)

Form 2	Formatting the text	IDT 3000
Text name	demober1	Section A1 Password
<input type="checkbox"/> (1) Formatting text (text file -> formatted text file)	Columns	55
<input type="checkbox"/> (2) Print formatted text	on printer No.	
<input checked="" type="checkbox"/> (X) Insert addressee of	1000008	
<input checked="" type="checkbox"/> (X) Add from master-file2 Orders from	935-001/21C	
<input checked="" type="checkbox"/> (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).

FILEACCESS (5)

Form 4	Businessletters	IDT 3000
Text name <input style="width: 50px;" type="text"/> Section <input style="width: 30px;" type="text"/> Password <input style="width: 50px;" type="text"/>		
<input type="checkbox"/> (1) From unformatted text or (2) formatted file to printer No. <input style="width: 20px;" type="text"/>		
<input type="checkbox"/> (1) A letter to addressee: (B)		
<input type="checkbox"/> (2) without accessing the address-file		
A (3) A letter to all addresses of the address-file		
<input type="checkbox"/> (4) Only selected addresses with field <input style="width: 30px;" type="text"/> field <input style="width: 30px;" type="text"/>		
<input type="checkbox"/> (X) Using letterhead: _____ dated for renewed submission : _____		
<input type="checkbox"/> (X) With data of Order - Master-file of C		
<input type="checkbox"/> (X) Margin alignment _____ Column (only printer 2601)		
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).

DATA SELECTION (1)

THE SELECTION OF DATA OUT OF THE ABOVE MENTIONED DATA FILES
CAN BE DONE IN THE FOLLOWING WAYS:

- THROUGH LOGICAL COMPARE COMMANDS DURING THE
BUSINESS LETTER PRINTING (SELECTED LETTERS)
- THROUGH DATA(BASE) INQUIRY LANGUAGES AND/OR
REPORT GENERATORS (QUERY, REPORT3000, ASK,
QUIZ, QUICK, GENEASYS ETC.) PROVIDING THE
SELECTED DATA IN A IDT3000 BATCH INTERFACE
FILE
- THROUGH BATCH- OR SESSION MODE APPLICATION
PROGRAMS PROVIDING THE SELECTED DATA IN AN
IDT3000 BATCH INTERFACE FILE

SEE EXAMPLES NEXT PAGES ...

DATA SELECTION (3)

Form 1&3		Text maintenance		IDT 3000
Text name DEMOBERL		Section A2	Password <input type="text"/>	Text-File
<input checked="" type="checkbox"/> (1) text entry	(4) Insert at			
(2) print on printer <input type="checkbox"/>	(5) modify from			
(3) renumber	(6) display from line <input type="text"/>			
(X) Korrektur	(7) delete all, or from line	to		
	(8) duplicate line	to		
	(9) search pattern	from		
	(0) copy	to <input type="text"/>		
1 . 11 . 21 . 31 . 41 . 51 . 61 . 71				
Start				
This is an A 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. &DSALESMAN will contact You within the				
next few days and provide further information for You.				
Sincerly 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).

CUSTOMIZER (1)

Form 1	Customizer for Hardwareconfiguration	IDT 3000
--------	--------------------------------------	----------

<input checked="" type="checkbox"/> (B)	Char.Set	:	(1) ASCII/UK	(2) Deutsch(ISO)	(3) Francais	(4) Espanol
<input checked="" type="checkbox"/> (C)	Language	:	(1) English	(2) Deutsch	(3) Francais	(4) Espanol

<input checked="" type="checkbox"/> (X)	Auditfile used.		(E) addressee in field No.		<input checked="" type="checkbox"/> (D)
<input checked="" type="checkbox"/> (X)	Database for Hyphenation-Exceptions used				
<input checked="" type="checkbox"/> (X)	Correction-Aid used				

Printer	Type	Device-Class		Printer	Type	Device-Class
1	H O L L E R	LP2601	(A)	2	H O L L E R	LP
3				4		
5				6		
7				8		
				34		

(A) Terminal-Printer (C) Matrixprinter 2608/2631 as Hardcopy (E) Daisywheelprinter 2601 as Hardcopy (H) Olympia ESW100R0 as Hardcopy	(B) Lineprinter 2613/2617/2619 (D) as Device (F) as Device (G) Laserprinter 2680
---	---

☐ (X) Copy screen to lineprinter

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).

SUPERVISOR

Form 1	Daily Report/Renewed submission	IDT 3000
<input type="checkbox"/> (1) Print daily report (A) <input type="checkbox"/> (2) daily report only for business letters <input type="checkbox"/> (3) check list for renewed submission (B)		Printer No. <input type="checkbox"/>
<input type="checkbox"/> (A) Totally <input type="checkbox"/> (B) Date of beginning <input type="text"/> <input type="checkbox"/> (C) From this date up to <input type="text"/> (C)		
Sort item		
1st <input type="checkbox"/>	(A) Print date	(D) Text name
2nd <input type="checkbox"/>	(B) Date of renewed submission	(E) Addressee
3rd <input type="checkbox"/> (D)	(C) User	
4th <input type="checkbox"/>		
Optional only 'text name' _____ only user _____		
Comment : _____		

THE SUPERVISOR FEATURE ALLOWS SOME KIND OF PROCESSING FUNCTIONS LIKE DAILY REPORTS OF OUTGOING LETTERS AND REPORTS **(A)** OR RECORDS OF RENEWED SUBMISSIONS, THAT ARE DUE FOR NEW ACTIONS **(B)**. BOTH REPORTS MAY BE TOTAL OR A PARTIAL SELECTION **(C)** WITH DIFFERENT SORT CRITERIA **(D)**.

I N T E R F A C E S

INTEGRATED DATA- AND TEXTPROCESSING REQUIRES SEVERAL INTER-
FACES BETWEEN THE TEXTPROCESSING AND

- THE COMPUTER FILES (MPE, KSAM, IMAGE)
- DATA DEFINITIONS (TRADITIONAL FILE LAYOUTS,
DATA BASE SCHEMAS, DATA DICTIONARIES)
- THE BATCH PROCESSING
- DATA SELECTIONS OUT OF QUERY, ASK, REPORT,
APPLICATION PROGRAMS ETC.
- VARIOUS TYPES OF PRINTING HARDWARE (FROM
TYPEWRITER TO LASER PRINTER)
- DATA EXCHANGE AND DATA COMMUNICATION
(MAGNETIC TAPES, MICROFICHES, POINT TO
POINT DATA COMMUNICATION, MULTIPOINT DATA-
COMMUNICATION, COMPUTER-COMPUTER COMMUNICA-
TION, ELECTRONIC MAIL ...)