

---

Title:

RC3600 DATA ENTRY RELEASE 2  
STRUCTURE OF ACCOUNT- AND LOGFILE.

---

 **REGNECENTRALEN**

RC SYSTEM LIBRARY: FALKONERALLE 1 DK-2000 COPENHAGEN F

---

RCSL No: 43-GL5985

Edition: January 1978

Author: Flemming Havmøller

---

Keywords:

MUS, DOMUS, DATA ENTRY, LOGFILE, LOGF,  
ACCOUNTFILE, ACCO.

---

Abstract:

This manual describes how the files ACCO (accountfile) and LOGF (logfile) are structured and some examples of how to make a Musilprogram to read these files.

CONTENTSPAGE

1.	INTRODUCTION	1
2.	ACCOUNTFILE ACCO	2
	2.1. Accountfile, Structure as Discfile	2
	2.2. Accountfile, Structure as Magnetic Tape File	4
3.	LOGFILE, LOGF	5
	3.1. Logfile, Structure as Discfile	5
	3.2. Logfile, Structure as Magnetic Tape File	9

APPENDIX A: CODINGEXAMPLE FOR READING ACCOUNTFILE

APPENDIX B: CODINGEXAMPLE FOR READING LOGFILE



1. INTRODUCTION.

1.

This manual describes how the files ACCO (Accountfile) and LOGF (Logfile) are structured.

Later on in this manual (Appendix A and B) there are some coding examples which shows how to read these files and produce statistics in different ways.

These 2 files, both produced by NANNY during process, has information about: login-, key- and setcommands, operators name, key-stationnumber, time, date and the like.

The difference between the accountfile (ACCO) and the logfile (LOGF) is, that the accountfile only contains one recordtype OS (Operator Statistics) and the logfile contains the following recordtypes: OS (Operator Statistic), SC (Supervisor Command), SA (Supervisor Answer), LC (Login Command) and LA (Login Answer).

The files can be used either directly from disc or from magnetic tape by using the supervisor program DUMPSTAT, (see Data Entry Release 2 - Users Guide Part 2).

Please note that it is not allowed to write in accountfile or logfile, because NANNY are using some of the first words in the files, as index to write information.

2. ACCOUNTFILE ACCO.

2.1. Accountfile, Structure as Discfile.

The recordlength of these records is 52 bytes, and each sector in the discfile contains one or more of these records.

Maximum number of records in each sector is 9.

Each sector is starting with the recordtype OS (written with characters in ascii-code) in byte number 1 and 2. (See figure 2-2).

The first sector in the discfile (sector 0) has in the first two words 2 counters (see figure 2-1).

SEC: 1, 2, ...

BYTC: 0, 1, 2, ...

The first counter placed in the first word, tells how many sectors used (later on called sector counter), and the second counter placed in the second word tells how many bytes used in the last sector (later on called bytecounter).

Therefore, to calculate number of records to read, use the following formel:

Number of records: =  
 $((\text{Sectorcounter} - 1) * \text{NORECS}) + ((\text{Bytecounter} + 1) / \text{RECLENGTH})$ ,  
 where NORECS is maximum number of records in a sector,  
 and RECLENGTH is the length of the record.

In Musilcode the following statements can be used:

```
OPEN (ACCO,1);
SETPOSITION (ACCO,0,0);
DISCLENGTH: = RECLENGTH;
GETREC (ACCO, DISCLENGTH);
RECORDS: = (WORD ACCO↑.SECTOR-1)*NORECS;
RECORDS: = RECORDS+((WORD ACCO↑.BYTES+1)/DISCLENGTH);
```

After that the integer RECORDS will tell how many records in the discfile are relevant.

Please note that the first sector containing records is the second one in the discfile.

For further information about programming in the Musil-language, please see appendix A and B in this manual and the RC3600 Musil Programming Guide.

Figure 2-1:

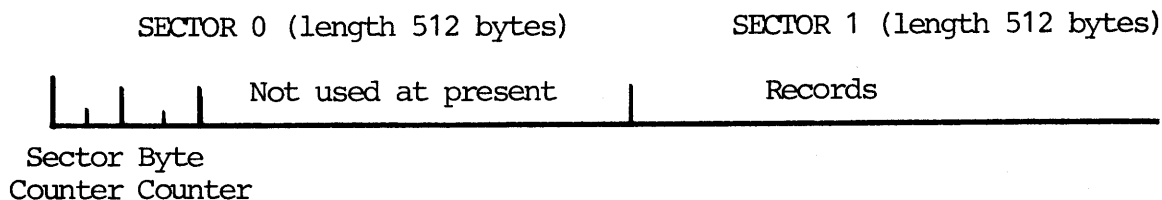


Figure 2-2. Recordformat of Records of Type OS.

FROM BYTE	TO BYTE	NO.OF BYTES	TYPE A/B/X	CONTAINS INFORMATION
1	2	2	A	Recordtype OS
3	10	8	A	Date YY.MM.DD
11	15	5	A	Time HH.MM
16	16	1	X	EMPTY
17	18	2	A	Terminal number
19	21	3	A	Operators identification from LOGIN
22	22	1	X	EMPTY
23	27	5	A	Jobname
28	28	1	X	EMPTY
29	33	5	A	Formatname
34	34	1	X	EMPTY
35	39	5	A	Batchname
40	40	1	X	EMPTY
41	42	2	B	Batchstatus
43	44	2	B	Keytime
45	46	2	B	Number of Keystrokes
47	48	2	B	Number of Records
49	50	2	B	Number of Corrections
51	52	2	B	Number of invalid Records

Explanation of type:

A = Characters in ASCII-code

B = Binary digits

X = Not used, Normally filled up with Null characters.

2.2 Accountfile, Structure as Magnetic Tape-file.

The discfile ACCO can be transferred to magnetic tape by use of the supervisor program DUMPSTAT.  
 (See Data Entry Release 2 - Users Guide, Part 2).

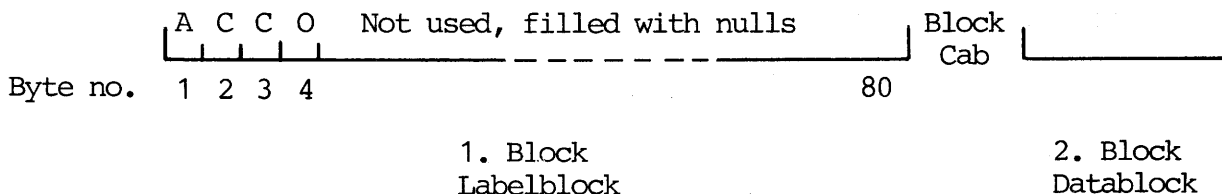
The first block on the tape is a labelblock with the blocklength of 80 bytes, this block has from byte 1 to 4 the ASCII-characters ACCO, and the remaining bytes in the block (from byte 5 to 80) is not used, and are filled up with null characters (see figure 2-3).

This labelblock is followed by, one or more datablocks, these datablocks have the length of 512 bytes, and each of them contains maximum 9 records of length 52 bytes. The information stored in these records are explained in section 2.1.

Please note that the last block on the tape can be a short block, minimum blocklength is 52 bytes.

After the last datablock, the magtape is terminated with two tape-marks.

Figure 2-3.





### 3. LOGFILE, LOGF.

3.

#### 3.1. Logfile, Structure as Discfile.

3.1.

The recordlength of these records is 102 bytes, and each sector in this discfile contains one or more of these records.

Maximum number of records in each sector is 5.

Each of these records is starting with a recordtype in byte number 1 and 2, this recordtype is written in ASCII-code and there are 5 different types.

OS: Operator Statistic. (Recordformat see figure 3-2).  
Information about: Jobname, formatname, batchname, batchstatus, keytime, keystrokes, records, corrections and invalid records.

SC: Supervisor Command. (Recordformat see figure 3-3).  
Information about commands sent from operator to supervisor.

SA: Supervisor Answer. (Recordformat see figure 3-3).  
Information about the result of running of a supervisor-program, and errormessages.

LC: Login Command. (Recordformat see figure 3-3).  
Information about: Login-, set-, key-, rekey- and edit-commands.

LA: Login Answer. (Record format see figure 3-3).  
Information about the result of the login-, set-, key-, rekey- and editcommands.

Each of these recordtypes has, from byte 3 to 21, information about date, time, terminal and operatorname.

The first sector in the discfile (sector 0) has in the first two words 2 counters (see figure 3-1).

The first counter placed in the first word, tells how many sectors used (later on called sectorcounter), and the second counter placed in the second word tells how many bytes used in the last sector (later on called bytecounter).

Therefore, to calculate number of records to read, use the following formel:

Number of records: =  
 $((\text{Sectorcounter}-1)*\text{NORECS}) + ((\text{Bytecounter}+1)/\text{RECLENGTH}),$   
 where NORECS is maximum number of record in a sector,  
 and RECLENGTH is the length of the record.

3.1. In Musilcode the following statements can be used:

```

OPEN (LOGF,1);
SETPOSITION (LOGF,0,0);
DISCLENGTH: = RECLENGTH;
GETREC (LOGF,DISCLENGTH);
RECORDS: = (WORD LOGF↑.SECTOR-1)*NORECS;
RECORDS: = RECORDS+((WORD LOGF↑.BYTES+1)/DISCLENGTH);
    
```

After that the integer RECORDS will tell how many records in the discfile are relevant.

Please note that the first sector containing records is the second one in the discfile.

For further information about programming in the Musil-language please see appendix A and B in this manual and the RC3600 Musil Programming Guide.

Figure 3-1:

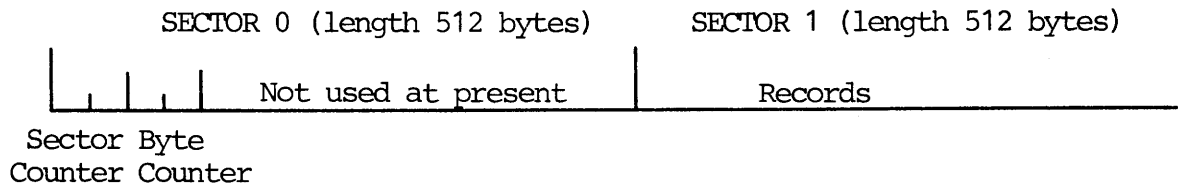


Figure 3-2. Recordformat of Records of Type OS.

3.1.

FROM BYTE	TO BYTE	NO.OF BYTES	TYPE A/B/X	CONTAINS INFORMATION
1	2	2	A	Recordtype = OS
3	10	8	A	Date YY.MM.DD
11	15	5	A	Time HH.MM
16	16	1	X	
17	18	2	A	Terminal number
19	21	3	A	Operator identifikation from LOGIN
22	22	1	X	
23	27	5	A	Jobname
28	28	1	X	
29	33	5	A	Formatname
34	34	1	X	
35	39	5	A	Batchname
40	40	1	X	
41	42	2	B	Batchstatus
43	44	2	B	Keytime
45	46	2	B	Number of Keystrokes
47	48	2	B	Number of records
49	50	2	B	Number of corrections
51	52	2	B	Number of invalid records
53	101	49	X	

## Explanation of Type:

A: Characters in ASCII-code.

B: Binary Digits

X: Not used, normally filled up with Null characters.

This record is, except that it is longer, equal to the record described in section 2, figure 2-2.



3.2 Logfile, Structure as Magnetic Tapefile.

3.2

The discfile LOGF can be transferred to magnetic tape by use of the supervisor program DUMPSTAT.  
(See Data Entry Release 2 - Users Guide, Part 2).

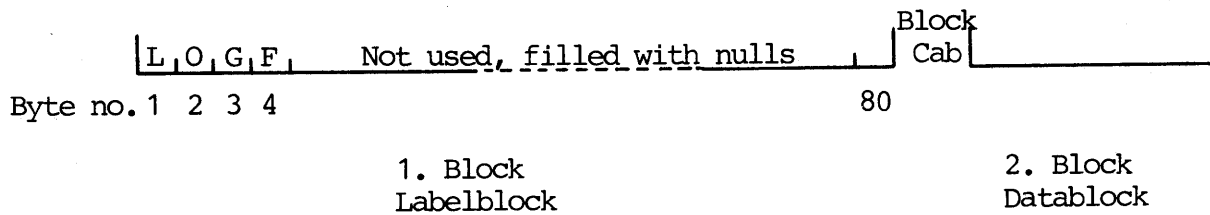
The first block on the tape is a labelblock with a blocklength of 80 bytes, this block has from byte 1 to 4 the ASCII-characters LOGF, and the remaining bytes in the block (from byte number 5 to 80) is not used and are filled up with null characters (see figure 3-5).

This labelblock is followed by one or more datablocks, these datablocks have the length of 512 bytes and each of them contains maximum 5 records of length 102 bytes.  
The information stored in these records are explained in section 3.1.

Please note that the last block on the tape can be a shortblock, minimum blocklength 102 bytes, equal to one record.

After the last datablock, the magtape is terminated with two tape-marks.

Figure 3-5:





APPENDIX A - CODING EXAMPLE FOR READING ACCOUNTFILE.

The following example in Musil language shows how it is possible to read in the Accountfile and produce statistics.

In the shown program there is no procedures to take care of errors from disc or from the printer.

The program is able to read the accountfile (ACCO) and write out a statistic which shows the operatorname, terminalnumber and number of Keystrokes done by the operator.

MUSIL COMPILER 4  
CPSTA

```

0000 IMUSIL PROGRAM PRINTCLT OPERATORSTATISTIC      NAME: OPSTA      PAGE 011
0001
0002 CONST
0003 PRGNO=      '<10><13>PROGRAM OPSTA<10><13>',
0004 OPNAME=     '<10><13>OPERATOR NAME: ',
0005 TERMINAL=   '    TERMINAL NO.: ',
0006 KEYSTROK=  '    NO. OF KEYSTROKES: ',
0007 HEAD=      '<10><13>STATISTIC FOR OPERATORSTROKES<10><13>',
0008 START=     'START',
0009 XEND=       '<10><13>END<10><13>',
0010 PARAM=     '**PARAM',
0011 NL=        '<10><13>',
0012 RECLGTH=   52, !RECORDLENGTH!
0013 NGRECS=    9, !NO. OF RECORDS IN A SECTOR!
0014 FCRMF=     '<12>';
0015
0016
0017 VAR
0018 ASTRING:    STRING(6);      !WORK STRING!
0019 OPTXT:     STRING(40);     !OPERATORSTRING!
0020 AJNT:      INTEGER;        !WORK INTEGER!
0021 DISCLENGTH: INTEGER;      !RECORDLENGTH!
0022 RECORDS:   INTEGER;       !NO. OF RECORDS IN ACCOUNTFILE!
0023
0024
0025 STATREC:    RECORD
0026             RECTYPE:      STRING(2);
0027             DATE:         STRING(8);
0028             TIME:         STRING(5);
0029             TERMINAL:     STRING(2) FROM 17;
0030             OPERATOR:     STRING(3) FROM 19;
0031             KEYSTROK:     STRING(2) FROM 45;
0032             STATREC:      STRING(52)FROM 1
0033             END;
0034
0035 DISC:       FILE -        !INPUTFILE!
0036             'ACCC',      !FILENAME!
0037             60,          !KIND = DISC!
0038             1,           !BUFFERS!
0039             512,        !BUFFERSIZE!
0040             UB           !FORMAT UNDEFINED BLOCKED!
0041             OF RECORD
0042             SECTOR:      STRING(2);  !NO. OF SECTORS!
0043             BYTES:      STRING(2)  !NO. OF BYTES IN LAST SECTOR!
0044             END;
0045
0046 PRINT:      FILE          !INPUTFILE!
0047             'SP',        !FILENAME!
0048             3,           !KIND = CHARACTER!
0049             1,           !BUFFERS!
0050             100,        !BUFFERSIZE!
0051             U            !FORMAT UNDEFINED!
0052             OF STRING(100);
0053

```



```
0054 IMUSIL PROGRAM PRINTOUT OPERATORSTATISTIC      NAME: OPSTA      PAGE 02!
0055
0056     PROCEDURE DELCHAR;      !DELETE ILLEGAL CHARACTERS!
0057     BEGIN
0058     AINT:= 0;
0059     REPEAT MOVE(ASSTRING,AINT,OPTXT,0,1); !MOVE ONE CHARACTER!
0060     IF BYTE OPTXT < 32 THEN INSERT(32,ASSTRING,AINT); !IF CHAR. ILLG!
0061     AINT:= AINT + 1 UNTIL AINT = 3;
0062     END;
0063
0064     PROCEDURE PRINTSTAT;      !PRINT ONE LINE!
0065     BEGIN
0066     OUTTEXT(PRINT,OPNAME);      !OPERATORS NAME!
0067     ASSTRING:= STATREC.OPERATOR;
0068     DELCHAR;      !CALL OF PROCEDURE DELCHAR!
0069     INSERT(0,ASSTRING,3);
0070     OUTTEXT(PRINT,ASSTRING);
0071     OUTTEXT(PRINT,TERMINAL);      !TERMINALNUMBER!
0072     ASSTRING:= STATREC.TERMINAL;
0073     INSERT(0,ASSTRING,2);
0074     OUTTEXT(PRINT,ASSTRING);
0075     OUTTEXT(PRINT,KEYSTROK);      !KEYSTROKFS!
0076     BINDEC(WORD STATREC.KEYSTROK,ASSTRING);
0077     OUTTEXT(PRINT,ASSTRING);
0078     END;
0079
```

```

0080 IMUSIL PROGRAM PRINTOUT OPERATORSTATISTIC      NAME: OPSTA      PAGE 031
0081
0082      BEGIN                                !MAIN PROGRAM!
0083 10:  OPMESS(PRGNO);                        !MESSAGE TO OPERATOR!
0084      OPIN(OPTXT);                          !PREPARE OPTXT FOR INPUT!
0085      CPWAIT(ATNT);                          !WAIT FOR INPUT!
0086      IF OPTXT = START THEN GOTO 15;
0087      OPMESS(PARAF);                         !IF NOT START!
0088      GOTO 10;
0089
0090 15:  OPEN(PRINT,3);                          !OPEN PRINTER!
0091      SETPOSITION(PRINT,0,0);
0092      CUTTEXT(PRINT,FORMF); !NEW PAGE!
0093      CUTTEXT(PRINT,HEAD); !WRITE HEAD ON PAGE!
0094      CUTTEXT(PRINT,NL);
0095
0096      OPEN(DISC,1);                          !OPEN DISC FOR READING!
0097      SETPOSITION(DISC,0,0); !POSITION TO FIRST SECTOR!
0098      DISCLENGTH:= RECLGTH;                  !AJUST RECORDLENGTH!
0099      GETREC(DISC,DISCLENGTH); !READ THE RECORD WITH LENGTH!
0100      RECORDS:= (WORD DISC↑.SECTOR-1)*NORECS; !NO OF RECCRDS IN SECTOR!
0101      RECORDS:= RECORDS+((WORD DISC↑.BYTES+1)/DISCLENGTH); !NO OF RECCRDS!
0102      SETPOSITION(DISC,0,1);
0103
0104      WHILE RECORDS > 0 DO
0105          BEGIN
0106              GETREC(DISC,DISCLENGTH);
0107              MOVE(DISC↑,0,STATREC,0,DISCLENGTH);
0108              PRINTSTAT;
0109              RECORDS:= RECORDS - 1;
0110              END;
0111      CLOSE(DISC,1);                          !CLOSE INPUT!
0112      CUTTEXT(PRINT,NL);
0113      CUTTEXT(PRINT,XEND); !PRINT END ON PRINTER!
0114      CUTTEXT(PRINT,NL);
0115      CUTTEXT(PRINT,FORMF); !NEW PAGE!
0116      CLOSE(PRINT,1);                          !CLOSE PRINTER!
0117      OPMESS(XEND);                          !MESSAGE TO OPERATOR!
0118      GOTO 10;
0119      END;

```

SIZE: 01568





APPENDIX B - CODINGEXAMPLE FOR READING LOGFILE.

This coding example shows a way to read in Logfile (LOGF) and produce a statistic which is able to print out the use of a certain program, when it has been used and of which operator.

MUSIL COMPILER 4  
PRCG

0000 !MUSIL PROGRAM PRINTOUT USE OF PROGRAMS      NAME: PRGST      PAGE 01!

```

0001
0002 CONST
0003 PRGNO=      '<10><13>PROGRAM PRGST<10><13>',
0004 PRGNAME=    '      PROGRAM NAME: ',
0005 OPNAME=     '  OPERATOR NAME: ',
0006 TERMINAL=   '  TERMINAL NO.: ',
0007 NULLS=     '<0><0><0><0><0><0><0><0><0><0><0><0><0><0><0><0><0><0>',
0008 SC=        'SC',
0009 TIME=      '  TIME: ',
0010 DATE=      '<10><13>USED ON DATE: ',
0011 TYPEPRG=   '<10>TYPE SEARCHPROGRAMNAME: ',
0012 HEAD=     '<10><13>STATISTIC FOR USE OF PROGRAMS',
0013 START=    'START',
0014 XEND=     '<10><13>END<10><13>',
0015 PARAM=    '**PARAM',
0016 NL=       '<10><13>',
0017 RECLGTH=  102,      !RECORDLENGTH!
0018 NRECS=    5,        !NO. OF RECORDS IN ONE SECTOR!
0019 MESSLGTH= 20,        !MAX. NO. OF BYTES TO SEARCH!
0020 FORMF=    '<12>';
0021
0022
0023 VAR
0024 ASTRING:    STRING(6);        !WORK STRING!
0025 OPTXT:     STRING(80);      !OPERATORSTRING!
0026 AINT:      INTEGER;        !WORK INTEGER!
0027 DISCLENGTH: INTEGER;        !RECORDLENGTH!
0028 RECORDS:    INTEGER;        !NO. OF RECORDS IN LOGFFILE!
0029 LENGTH:     INTEGER;        !LENGTH OF PROGRAMNAME!
0030 PROGRAM:    STRING(MESSLGTH); !NAME OF PROGRAM TO SEARCH!
0031
0032
0033 STATREC:     RECORD
0034            RECTYPE:    STRING(2);
0035            DATE:        STRING(6);
0036            TIME:        STRING(5);
0037            TERMINAL:    STRING(2) FROM 17;
0038            OPERATOR:    STRING(3) FROM 19;
0039            TEXT:        STRING(79) FROM 23;
0040            STATREC:    STRING(102)FROM 1
0041            END;
0042
0043 DISC:        FILE            !INPUTFILE!
0044            'LOGF',      !FILENAME!
0045            60,            !KIND = DISC!
0046            1,            !BUFFERS!
0047            512,          !BUFFERSIZE!
0048            UB            !FORMAT UNDEFINED BLOCKED!
0049            OF RECORD
0050            SECTOR:      STRING(2);    !NO. OF SECTORS!
0051            BYTES:        STRING(2)    !NO. OF BYTES IN LAST SECTOR!
0052            END;
0053
0054 PRINT:        FILE            !INPUTFILE!
0055            'SP',         !FILENAME!
0056            3,            !KIND = CHARACTER!
0057            1,            !BUFFERS!
0058            100,          !BUFFERSIZE!
0059            U            !FORMAT UNDEFINED!
0060            OF STRING(100);
0061

```

```
0062 !MUSIL PROGRAM PRINTOUT USE OF PROGRAMS      NAME: PRGST      PAGE 021
0063
0064      PROCEDURE DELCHAR;      !DELETE ILLEGAL CHARACTERS!
0065      BEGIN
0066      AINT:= 0;
0067      REPEAT MOVE(ASSTRING,AINT,OPTXT,0,1);      !MOVE ONE CHARACTER!
0068      IF BYTE OPTXT < 32 THEN INSERT(32,ASSTRING,AINT);      !IF CHAR. ILLG!
0069      AINT:= AINT + 1 UNTIL AINT = 5;
0070      END;
0071
0072      PROCEDURE PRINTSTAT;      !PRINT ONE LINE!
0073      BEGIN
0074      OPTXT:= NULLS;
0075      MOVE(STATREC.TEXT,0,OPTXT,0,LENGTH-1);      !FIND PROGRAMNAME!
0076      IF OPTXT <> PROGRAM THEN GOTO 1020;      !IF FOUNDED NAME NOT OK!
0077      OUTTEXT(PRINT,DATE);      !DATE!
0078      OPTXT:= STATREC.DATE;
0079      INSERT(0,OPTXT,8);
0080      OUTTEXT(PRINT,OPTXT);
0081      OUTTEXT(PRINT,TIME);      !TIME!
0082      OPTXT:= STATREC.TIME;
0083      INSERT(0,OPTXT,5);
0084      OUTTEXT(PRINT,OPTXT);
0085      OUTTEXT(PRINT,OPNAME);      !OPERATORS NAME!
0086      ASSTRING:= STATREC.OPERATOR;
0087      DELCHAR;      !CALL OF PROCEDURE DELCHAR!
0088      INSERT(0,ASSTRING,3);
0089      OUTTEXT(PRINT,ASSTRING);
0090      OUTTEXT(PRINT,TERMINAL);
0091      ASSTRING:= STATREC.TERMINAL;
0092      INSERT(0,ASSTRING,2);
0093      OUTTEXT(PRINT,ASSTRING);
0094 1020:END;
0095
```

```

0096 IMUSIL PROGRAM PRINTOUT USE OF PROGRAMS      NAME: PRGST      PAGE 03!
0097
0098      BEGIN                                !MAIN PROGRAM!
0099 10:  OPMESS(PRGNO);                        !MESSAGE TO OPERATOR!
0100      OPIN(OPTXT);                          !PREPARE OPTXT FOR INPUT!
0101      CPWAIT(AINT);                         !WAIT FOR INPUT!
0102      IF OPTXT = START THEN GOTO 15;
0103      OPMESS(PARAM);                        !NOT START!
0104      GOTO 10;
0105
0106 15:  OPMESS(TYPEPRG);                      !MESSAGE TO OPERATOR!
0107      OPIN(OPTXT);                          !PREPARE OPTXT FOR INPUT!
0108      CPWAIT(LENGTH);                      !WAIT FOR INPUT!
0109      IF AINT < MESSLGTH + 2 THEN GOTO 20; !IF INPUT OK!
0110      OPMESS(PARAM);                        !INPUT NOT OK!
0111      GOTO 15;
0112
0113 20:  PROGRAM:= NULLS;                      !CLEAR PROGRAM!
0114      MOVE(OPTXT,0,PROGRAM,0,LENGTH-1); !STORE PROGRAMNAME!
0115      OPEN(PRINT,3);                        !OPEN PRINTER!
0116      SETPOSITION(PRINT,0,0);
0117      CUTTEXT(PRINT,FORMF); !NEW PAGE!
0118      CUTTEXT(PRINT,HEAD); !WRITE HEAD ON PAGE!
0119      CUTTEXT(PRINT,PRGNAME);
0120      MOVE(PROGRAM,0,OPTXT,0,20);
0121      INSERT(0,OPTXT,20);
0122      CUTTEXT(PRINT,OPTXT);
0123      CUTTEXT(PRINT,NL);
0124
0125      OPEN(DTSC,1);                          !OPEN DISC FOR READING!
0126      SETPOSITION(DISC,0,0); !POSITION TO FIRST SECTOR!
0127      DISCLENGTH:= RECLGTH;                  !ADJUST RECORDLENGTH!
0128      GETREC(DISC,DISCLENGTH); !READ THE RECORD WITH LENGTH!
0129      RECORDS:= (WORD DISC.SECTOR-1)*NORECS; !NO OF RECCRDS IN SECTOR!
0130      RECORDS:= RECORDS+((WORD DISC.BYTES+1)/DISCLENGTH); !NO OF RECORDS!
0131      SETPOSITION(DISC,0,1);
0132
0133      WHILE RECORDS > 0 DO
0134          BEGIN
0135              GETREC(DISC,DISCLENGTH);
0136              MOVE(DTSC,0,STATREC,0,DISCLENGTH);
0137              IF STATREC.RECTYPE = SC THEN PRINTSTAT; !TYPE=SC (SUPERVISORCOMMAND)!
0138              RECORDS:= RECORDS - 1;
0139          END;
0140      CLOSE(DISC,1); !CLOSE INPUT!
0141      CUTTEXT(PRINT,NL);
0142      CUTTEXT(PRINT,XEND); !PRINT END ON PRINTER!
0143      CUTTEXT(PRINT,NL);
0144      CUTTEXT(PRINT,FORMF); !NEW PAGE!
0145      CLOSE(PRINT,1); !CLOSE PRINTER!
0146      OPMESS(XEND);                          !MESSAGE TO OPERATOR!
0147      GOTO 10;
0148      END;

```

SIZE: 01902



STATISTIC FOR USE OF PROGRAMS      PROGRAM NAME: COPY

USED ON DATE: 78.02.06 TIME: 13.18 OPERATOR NAME: FLH TERMINAL NO.: 02  
USED ON DATE: 78.02.06 TIME: 11.12 OPERATOR NAME: FLH TERMINAL NO.: 02  
USED ON DATE: 78.02.06 TIME: 11.12 OPERATOR NAME: FLH TERMINAL NO.: 02  
USED ON DATE: 78.02.06 TIME: 11.13 OPERATOR NAME: FLH TERMINAL NO.: 02

END

