
Title:

RC3600 Data Entry Release 2.

User's Guide for Supervisorprogram COPY and Corrections
for User's Guide Part 1 and 2 and Supervisor Programming
Guide.

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RCSL No: 43-GL5992

Edition: January 1978

Author: Flemming Havmøller

Keywords:

MUS, DOMUS, DATA ENTRY, CORRECTIONS, SUPERVISOR PROGRAM,
COPY

Abstract:

This manual describes how to use the supervisorprogram
COPY.

This program is used to create a new batch, by copying
one or more existing batches.

Corrections to the User's Guide part 1 and part 2 and
the Supervisor Programming Guide.

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1. INTRODUCTION.

1.

This manual describes how to use the supervisor program COPY. Further, this manual describes some changes in the manuals: RC3600 DATA ENTRY RELEASE 2 - USER'S GUIDE PART 1 and PART 2, and the SUPERVISOR PROGRAMMING MANUAL.

The description of supervisor program COPY in section 2 can be inserted, instead of page 27, in the:

RC3600 DATA ENTRY RELEASE 2
USER'S GUIDE PART 2
RCSL: 43-GL4796
EDITION: JUNE 1977.

The corrections to BATCH DESCRIPTION in section 3 can be inserted, instead of page 21 to 25, in the:

RC3600 DATA ENTRY RELEASE 2
USER'S GUIDE PART 1
RCSL: 43-GL4795
EDITION: JUNE 1977

The corrections in section 4 can be inserted in the:

RC3600 DATA ENTRY RELEASE 2
SUPERVISOR PROGRAMMING GUIDE
RCSL: 43-GL4351
EDITION: JUNE 1977

in the following way:

Section 4.1 instead of the already existing page 27.

Section 4.2 instead of the pages C1 and C2 in appendix C.

The new appendix: BATCH FLAGS in section 5 can be inserted in the:

RC3600 DATA ENTRY RELEASE 2
USER'S GUIDE PART 2
RCSL: 43-GL4796
EDITION: JUNE 1977

as a new appendix 12, please correct the index to the manual with the text: APPENDIX 12 BATCH FLAGS.

1. The reason for this manual is:

1.

1. A new version of the supervisor program COPY which now is able to copy one or more batches to a new batch and produce a printout with time, date and a list of copied batches.
2. The extension of the batch status word from one word to two words.

2. PROGRAM: COPY - create a new batch by copying one ore more existing batches.

2.

KEYING:

1. Key: COPY
2. Key: Name of batch to be copied.
3. Key: Name of job to which the batch is to be copied.
4. Key: . and
key: Name of the new batch.
5. Key: CONT if more batches is to be copied.
6. Press the ENTER key.

DESCRIPTION: The COPY program is used to create a new batch by making a copy of one ore more existing batch(es). If the job specified in the command does not exist it will be created. The original batch(es) is left unchanged.
If CONT is keyed, then the new command can be typed when the supervisor is in WAITING mode.
If CONT is keyed to the last batch, and there is no more batches to copy, key STOP to stop and remove the program.
The program may for example be used if it is wanted that the same batch should exist in more than one job, to preserve a single or a few batches when a job is going to be deleted by the DELETE JOB command, or to copy different batches to one batch, by using the parameter CONT.
The program produces a printout containing the following information for each copied batch:

- JOBNAM E name of output job.
- BATCHNAME name of output batch.
- BATCH NO. the copynumber of input batch.
- BATCH NAME the name of the input batch.
- NO.OF RECORD number of records copied from input batch.

After the last batch is copied then the information:
TOTAL NO.OF RECORDS: <No of records total in the new batch>
will be printed.

The following ERROR may occur in the printout:

*****DISC ERROR:<code> IN BATCH:<batch1>, LAST BATCH OK IS: <batch2>

The batch cannot be copied due to a disc error. <code> is described in appendix 2, <batch1> is the name of the current input batch and <batch2> is the name of the last batch copied without errors.

EXAMPLES:

```
COPY  A001  BJOB.B0001
COPY  A0002 BJOB.B0002  CONT
COPY  A0003 BJOB.B0002  CONT
COPY  ABAT1  BJOB.B0002
```

RECEIPTS:

NOT NAME	The specified batchname is not the name of a discfile.
NOT BATCH	The specified batchname is not an existing batch.
NOT JOB	The jobname specifies a discfile which is not a job.
BATCH IN USE	The batch to be copied is used by another keystation.
JOB IN USE	The job which the batch is to be copied from or to is used by another keystation.
LIBRARY IN USE	The joblibrary containing the jobnames of the system is used by another keystation.
NAME EXIST	The name specified as new batch name already exist as a discfile.
STATE ERROR	The batch is not in a state to be copied (must be closed, see section 11 in part 1 of this Users Guide).
DISC ERROR<code>	Consult appendix 2.

3. CORRECTIONS TO BATCH DESCRIPTION.

3.

5. BATCH DESCRIPTION.5.1 Batch Definition.

A batch is the area on a disc (a disc file), where the processed data are stored. The batch is the output area for the processed document.

The keyed data are stored in the batch as records. These records describe the logical structure of the processed document(s).

A record contains a number of fields. A field is an element in the document that is processed as a single unit.

5.2 Job Definition.

A job is a collection of batches, which can be referred together using the jobname. Physically a job is a named file on the disc. The file contains the names of the batches in the job.

The names of all jobs within the system are collected in the job library, also a file on the disc.

5.3 Flags and Status.

Each field, record, and batch has certain system flags associated to it. The flags are used for determining the status of a field, a record, and a batch.

5.3.1 Field Flags.

The field flags are named validity flag and skip flag and describes whether the field is:

- * VALID or INVALID
- * SKIPPED, SKIPPED BY STATEMENT, or NOT SKIPPED.

The field flags and their values are explained in the Data Entry Format Language Guide.

3.

5.3.2 Record Flags.

The record flags are named validity flag and rekey flag and defines whether the record is:

- * VALID or INVALID
- * REKEYED or NOT REKEYED

The record validity flag is INVALID if at least one field in the record is invalid, otherwise the validity flag is VALID.

The record rekey flag is REKEYED if the record is rekeyed, otherwise the rekey flag is not rekeyed.

5.3.3 Batch Flags.

The batch flags are named state flag, rekey flag, edit flag, dump flag, transfer flag, save flag, validity flag, sort flag, rekey required flag, valid required flag, copy flag, key rekey edit not allowed flag and key rekey not allowed flag.

The values of the state flag and the conditions for their attainment are the following:

- | | |
|-----------------|---|
| BLANK | - After the batch has been created, but before any keying is initiated. |
| CLOSED | - After termination of keying, rekeying or editing. |
| EDITING | - During editing. |
| EDITING ESCAPED | - After temporary interruption of editing. |
| KEYING | - During keying. |

- KEYING + REKEYING - During concurrent keying and rekeying. 3.
KEYING + REKEYING
ESCAPED - After rekeying has been temporarily interrupted, while keying is still taking place.
REKEYING - During rekeying.
REKEYING ESCAPED - After temporary interruption of rekeying.

The rekey flag is REKEYED when every record in the batch is rekeyed, the flag is PARTIAL REKEYED if some but not all of the records are rekeyed, and the flag is NOT REKEYED if none of the records are rekeyed. A batch can be PARTIAL REKEYED if it has been rekeyed, and when additional records have been created in the batch by a keying performed after the initial rekeying.

The edit flag is EDITED, if the batch has been edited and is not opened for keying or rekeying later on, otherwise the flag is NOT EDITED.

The dump flag is DUMPED, if the batch has been dumped in host computer format, otherwise the flag is NOT DUMPED.

The transfer flag is TRANSFERRED, if the batch has been transferred by transmission to a host computer in remote job entry fashion, otherwise the flag is NOT TRANSFERRED.

The save flag is SAVED, if the batch is saved by the supervisor program SAVE, otherwise the flag is NOT SAVED.

The validity flag is INVALID, if at least one record in the batch is flagged as invalid, otherwise the flag is VALID.

The sort flag is SORTED, if the batch has been sorted by the Data Entry Sort Package, otherwise the flag is NOT SORTED.

The rekey required flag is REQUIRED, if the batch must be flagged as rekeyed before it may be dumped in host computer format or transferred to host computer, otherwise the flag is NOT REQUIRED.

The valid required flag is REQUIRED, if the batch must be valid before it may be dumped in host computer format or transferred to host computer, otherwise the flag is NOT REQUIRED.

The copy flag is COPIED, if the batch is a copy of another batch otherwise the batch is NOT COPIED.

The key rekey edit not allowed flag is NOT ALLOWED, if the batch is a copy of a number of batches with different formats, or if the batch is a copy of a number of batches with the same format and 'end format' is met inside the batch, otherwise the flag is ALLOWED.

The key rekey not allowed flag is NOT ALLOWED, if the batch is a copy of a number of batches with the same format and 'end format' is not met inside the batch, otherwise the flag is ALLOWED.

The batch flags determine the batch status, and are checked before any batch operation. See section 11 about the protection system.

3.

5.4 Batch and Job Creation.

New data batches and jobs are created by the control command SET. The SET command has the following syntax:

1. Key: SET
2. Key the jobname (1 to 5 characters).
3. Key the format name (1 to 5 characters).
4. Key the batch name (1 to 5 characters).
5. If the standard batch size is not wanted, then key the size (integer between 2 and 761).
6. If the batch must be rekeyed before it may be dumped or transferred, then key:
REKEY
7. If the batch must be valid before it may be dumped or transferred, then key:
VALID
8. Press the ENTER key.

Examples: SET JOB01 FORM BAT01 50
SET JOB02 F199 BAT02 REKEY VALID

The SET command performs:

- * Creates a data batch with the specified name and with either the specified size or the standard size.
- * Creates a job, if the job name does not already exist within the system, with the specified name and inserts the job into the job library.
- * Checks whether or not the specified format name exists within the system.

3. * Initializes the batch status to:
- | | | |
|--------------------------------------|---|--|
| State flag | = | BLANK |
| Rekey flag | = | NOT REKEYED |
| Edit flag | = | NOT EDITED |
| Dump flag | = | NOT DUMPED |
| Transfer flag | = | NOT TRANSFERRED |
| Save flag | = | NOT SAVED |
| Validity flag | = | VALID |
| Sort flag | = | NOT SORTED |
| Rekey required flag | = | REQUIRED if the REKEY parameter is specified else NOT REQUIRED |
| Valid required flag | = | REQUIRED if the VALID parameter is specified else NOT REQUIRED |
| Copy flag | = | NOT COPIED |
| Key rekey edit mode not allowed flag | = | ALLOWED |
| Key rekey not allowed flag | = | ALLOWED |

The format name specifies the format which controls all keying, rekeying and editing to this batch.

The size of the batch refers to the number of disc sectors (1 sector = 1 block = 512 characters) which are reserved for the batch. If the batch size is not specified the batch is created with the standard size. The standard size represents the smallest area which can be reserved on the disc. It must be observed that a batch is extended automatically when needed as long as disc space is available.

When specifying the REKEY parameter, the batch is flagged so it must be rekeyed before it can be dumped or transferred.

When specifying the VALID parameter, the batch must be valid before it can be dumped or transferred.

5.5 Batch and Job Deletion.

When a batch or a job is not needed any longer within the system, it may be deleted by the supervisor program DELETE. See Users Guide Part 2.

4. CORRECTIONS TO SUPERVISOR PROGRAMMING GUIDE.

4.

4.1. Corrections to Creation of a Batch.

4.1.

5.4 Creation of a batch.

If a batch is created by a supervisor program there are different things to remember:

(The structure of a batch, see appendix C)

a) in the batch head:

- jobname must be a name of a job file. If the job does not exist already, the job name must be inserted in the job library (JBLIB) and a file with the job name must be created and the contents must be set according to the specifications given in appendix B.
- the format name must be a name of an existing translated format if the batch later on must be rekeyed or edited.
- the batch name must be the same name as the name of the file where the batch is placed.
- the batch Status1 must be set to closed, i.e. bit 0 = 1 (status = 100000_8) or closed and invalid, i.e. bit 0 = 1 and bit 12 = 1 (status = 100010_8). If the invalid bit (bit 12) is set, some of the field in the batch may be invalid.
- the batch Status2 must be set to zero.
- the number of blocks (word 14) and number of records (word 15) must be calculated and inserted in the batch head.
- end format (word 26) must be set to 100000_8 as if the 'end'-statement in the format was executed.
- the other words in the batch head must be set to zero.

b) in the data record head:

- subname must be the name of a subformat in the format specified in the batch head.
- the length of the record and the record number in the batch must be calculated and inserted.
- the other bytes must be set to zero. The record status can be set to non-zero, if the record must not be dumped. (Normally the supervisor program 'dump' will skip records with invalid status).

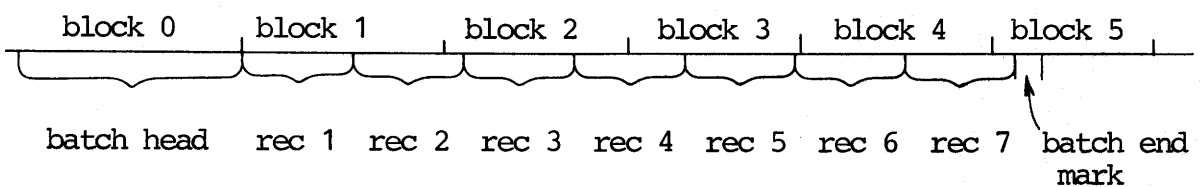
4.2. Corrections to Structure of a Batch.

4.2.

Appendix C: Structure of a Batch.

A batch is a disc-file containing the records with the fields. The records are stored from the second block and forward in the file. The first block contains some information about the batch and is called the batch head. The batch is terminated by a batch end mark.

Example:

C.1. Batch Head.

The contents of the batch head is:

- word 0 - 2: Job name: the name of the job, to which the batch belongs.
- word 3 - 5: Format name: the name of the translated format to be used when keying, rekeying and editing the batch.
- word 6 - 8: Batch name.
- word 9: Batch status1 (see below).
- word 10: Byte count in old batch last block.
- word 11: Byte count in work batch last block.
- word 12: Block address of last register record.
- word 13: Byte address of last register record.
- word 14: Number of blocks in the batch inclusive the batch head.
- word 15: Number of data records in the batch.
- word 16: Number of rekeyed records.
- word 17: Number of invalid records.
- word 18: Activation time, real time clock 1.
- word 19: Activation time, real time clock 2.
- word 20: Block count in old batch.
- word 21: Block count in work batch.
- word 22: Name of current subformat.
- word 23: Current recordnumber in old batch.

word	24:	Current record number in work batch.	4.2.
word	25:	Maximum number of records in work batch.	
word	26:	End format: = 100000 ₈ indicates that the 'end'-statement in the format is executed.	
word	27:	Batch status2 (see below).	

The rest of the batch head is not in use yet, i.e. must all be zeroes.

The batch status words is 32 bit, where the value of the bits, gives a status:

Batch status1:

all bits = 0	:	the batch is empty.
bit 0 = 1	:	the batch is closed.
bit 1 = 1	:	the work batch is closed.
bit 2 = 1	:	the batch is editing.
bit 3 = 1	:	the batch is rekeying.
bit 4 = 1	:	the batch is keying.
bit 5 = 1	:	the batch must be rekeyed (the parameter 'rekey' has been used in the 'set'-command).
bit 6 = 1	:	the batch has been rekeyed.
bit 7 = 1	:	the batch has been partial rekeyed.
bit 8 = 1	:	the batch has been edited.
bit 9 = 1	:	the batch has been saved by the supervisor program 'save'.
bit 10 = 1	:	the batch has been dumped by the supervisor program 'dump'.
bit 11 = 1	:	the batch has been transferred.
bit 12 = 0	:	the batch is valid.
bit 12 = 1	:	the batch is invalid, i.e. one or more fields are invalid.
bit 13 = 1	:	the batch has been sorted.
bit 14 = 1	:	the batch must be valid (the parameter 'valid' has been used in the 'set'-command).
bit 15	:	Not used at present.

Batch status:

4.2.

- bit 16 = 1 : the batch is a copy of another batch.
- bit 17 = 1 : it's not allowed to key, rekey or edit in this batch.
- bit 18 = 1 : it's not allowed to key or rekey in this batch.
- bit 19 to 31 : not used at present.

5. NEW APPENDIX.

5.

Appendix 12, Batch Flags.

The batch flags are all stored in the Batch statusword 1 and 2.

One statusword is 16 bit and the bits in these two statuswords are numbered from bit 0 to bit 31.

Statusword 1 = Bit 0 to bit 15.

Statusword 2 = Bit 16 to bit 31.

<u>BIT</u>	<u>MEANING</u>
All bits = 0	The batch is empty.
0 = 1	The batch is closed.
1 = 1	The work batch is closed.
2 = 1	The batch is editing.
3 = 1	The batch is rekeying.
4 = 1	The batch is keying.
5 = 1	The batch must be rekeyed. (The parameter 'rekey' has been used in the 'set'-command.
6 = 1	The batch has been rekeyed.
7 = 1	The batch has been partial rekeyed.
8 = 1	The batch has been edited.
9 = 1	The batch has been saved by the supervisor program 'SAVE'.
10 = 1	The batch has been dumped by the supervisor program 'DUMP'.
11 = 1	The batch has been transferred.
12 = 0	The batch is valid.
12 = 1	The batch is invalid i.e. one or more fields are invalid.
13 = 1	The batch has been sorted.
14 = 1	The batch must be valid the parameter 'valid' has been used in the 'set'-command.

- 15 Not used at present. 5.
- 16 = 1 The batch is a copy of another batch.
- 17 = 1 It's not allowed to key, rekey or edit in the batch.
- 18 = 1 It's not allowed to key or rekey in the batch, the batch must first be edited.
- 19 - 31 Not used at present.

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