
RCSL No: 31-D546

Edition: January 1979

Author: Palle Andersson

Title:

RC8000 DISC PROCESS (RC36xx)

Keywords:

RC8000 External Process

Abstract:

This manual describes the conventions of an external process connected to a disc unit (RC36xx).
(7 printed pages).

Copyright © 1980, A/S Regnecentralen af 1979
RC Computer A/S
Printed by A/S Regnecentralen af 1979, Copenhagen

Users of this manual are cautioned that the specifications contained herein are subject to change by RC at any time without prior notice. RC is not responsible for typographical or arithmetic errors which may appear in this manual and shall not be responsible for any damages caused by reliance on any of the materials presented.

General Rules.

Sense and input operations can be initiated by an internal process that is user of the disc process. A disc process accepts input messages simultaneously from more than one internal process provided no process has reserved it. Output operations require that the disc process has been reserved.

Sense Operation.

The device on which the area is stored is sensed and the status word is delivered as an answer.

Input Operation.

A number of consecutive segments of 256 words each is input to a storage area within the sending process. The first segment number wanted is given in the message.

The operation transfers the maximum number of segments for which there is room within the storage area, i.e.

$$\begin{aligned} \text{number of segments} = \\ (\text{last storage address} + 2 - \text{first storage address}) // 512 \end{aligned}$$

If the input block thus specified exceeds the upper limit of the disc, input is performed only of that part of the block that is within the disc.

If the first segment is outside the limits of the disc, input is not initiated, but the answer contains a status bit, end medium, and halfwords transferred is set to zero.

The input operation is terminated,

- 1) when the input operation is completed, or
- 2) when the sending process is stopped, or
- 3) when parity error, timer, data overrun, or read error has been detected three times

whichever occurs first.

Only in case 1 the actual number of halfwords transferred is given in the answer. The number of halfwords transferred is a multiple of 512.

The number of characters is defined as three times the number of words transferred.

Output Operation.

Equivalent to the input operation.

Status Bits.

- | | |
|----|----------------------------|
| 1 | parity error or hard error |
| 2 | timer |
| 3 | data overrun |
| 5 | end medium |
| 10 | read error (address error) |

Messages and Answers.

operation:	message:	answer:
sense	0	status word 0 0
input	3 < 12 first storage address last storage address first segment number	status word number of halfwords number of characters
output	5 < 12 first storage address last storage address first segment number	status word number of halfwords number of characters

RETURN LETTER

Title: RC8000 Disc Process (RC36xx) RCSL No.: 31-D546

A/S Regnecentralen af 1979/RC Computer A/S maintains a continual effort to improve the quality and usefulness of its publications. To do this effectively we need user feedback, your critical evaluation of this manual.

Please comment on this manual's completeness, accuracy, organization, usability, and readability:

Do you find errors in this manual? If so, specify by page.

How can this manual be improved?

Other comments?

Name: _____ Title: _____

Company: _____

Address: _____

Date: _____

Thank you

..... **Fold here**

..... **Do not tear - Fold here and staple**

Affix
postage
here

 **REGNECENTRALEN**
af 1979

Information Department
Lautrupbjerg 1
DK-2750 Ballerup
Denmark