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Title:

Description of Dial-up Driver.

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Abstract:

This paper describes how to use the dial-up driver for the automatic calling unit on RC3600.

DIAL-UP DRIVERGeneral Description.

This driver is driving a dial-up controller, which is able to handle four automatic calling units numbered from 0 to 3. Control and output messages are accepted and MESS0(0:7) specifies the selected unit. If this unit number is greater than 3, status illegal (1b6) is returned. Input messages are returned with status illegal (1b6).

Control Messages.

Only the reservation bit (bit13) is respected. All other control bits are ignored.

A control message with the reservation bit set and a non-zero MESS1 reserves the unit specified in MESS0(0:7) and tests if it is ready to receive the number. In MUSIL this message is send if OPEN ( zone, unitno shift 8 + 3) is used.

A control message with the reservation bit set and a zero MESS1 releases the unit specified in MESS0(0:7). This must always be done if a status error is received. After connection it may be done without disconnecting the line. In MUSIL the statement CLOSE (zone, 1) generates this message.

Output Messages.

Only output mode 3 is accepted.

MESS0 : unitno. shift 8 + 3  
MESS1 : bytecount  
MESS2 : byteaddress of output  
MESS3 : irrelevant

The four least significant bits from each byte output to the driver specifies a digit to be dialled. This means that a number can be given both as ASCII-characters and as EBCDIC-characters.



The value 13 in these four bits specifies a separator control character (SEP). Three different modes of connection exist, where SEP must be used in different ways.

- 1) If the device is directly connected to the telephone network, SEP must be output as the first character and then followed by the number.
- 2) If the device is connected via an internal switchboard and a number is dialled, SEP must be used as the first character given to the general network. That is, if you have to dial one digit (f.ex. a 1) to get a line, SEP must be given after this digit.
- 3) If the device is connected via an internal switchboard and an extension number is dialled, then SEP must not be used.

The second and following SEP-characters may be used to indicate a pause between two digits.

In ASCII SEP can be specified by - (minus) and in EBCDIC ' (apostrophe) can be used.

#### Status.

- 1b0: disconnected.
- 1b1: call abandoned.
- 1b2: not ready to receive;  
digit not accepted.
- 1b6: illegal command;  
line reserved.
- 1b10: illegal character in output.

After a status error the unit must be released (see control messages).



Interface procedure.

The following procedure is recommended when making a automatic call:

- 1) Reserve the dial-up unit.
- 2) Set data terminal ready.
- 3) Output the number to the dial-up driver.
- 4) If no status error has occurred release the dial-up unit and the connection is established.
- 5) If an error has occurred then:
  - 5a) Clear data set ready.
  - 5b) Release the dial-up unit.
  - 5c) Wait one minute before next try.

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