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Title:

AUTOLOAD

Keywords:

RC8000, utility program, autoloader of device controller.

Abstract:

This manual describes a utility program designed to autoloader and start up communication with device controllers.

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RC 8000 AUTOLOAD-program

Use

The fp utility program 'autoload' is used for autoload of device controllers connected to RC 8000 via the FPA 801 controller. The load information must be present as a file on the backing storage.

Call

< main process > = autoload < loadfile >

where

< main process > is the name of the main process running the fpa in question and

< loadfile > is the bs area holding the front end system.

Function

By initiating an autoload function on the fpa, the front end is forced to start its autoload sequence, which as a standard reads the device number of the load medium on the switch panel. Loading the device controller from RC 8000 implies that the switches must point out the fpa (in RC 8301 normally switch no 0, 10, 13 and 14 corresponding to device no 8.46). The autoload sequence now transfers a load command to RC 8000, and the first block is transferred from the load file to the device controller. The next command is delivered to the autoload program in RC 8000 causing another block to be transferred to the front end, and block by block is transferred in this way, controlled by the loadprogram in the device controller. When an end command is received, the block transfer is terminated and the communication to the device controller is started with a master clear operation.

Error messages In case of serious errors the program will terminate immediately and one of the error messages listed below will be typed on current output. The value of ok- and warning bits will be ok.no and warning.yes.

*** autoload call

The program is called without a left side or with parameter error.

***autoload load file connect error, result < result >

the load file cannot be connected.

< result > gives the cause:

- 1 area claim exceeded
- 2 catalog input/output error
- 3 entry does not exist
- 4 entry does not describe an area

***autoload error at reset, < cause >

***autoload error at autoload, < cause >

***autoload error at transfer, < cause >

These error messages are used in connection with errors on the fpa or in the device controller when resetting, autoloading or transferring a datablock. The message 'error at autoload' is often caused by an erroneous set up of switches in the device controller. < cause > defines the type of the error, which can either be 'result < result >' or 'status < status >'. The interpretation of < status > is found in the FPA Mainprocess Manual. The value of < result > means:

- 2 the process is not a user of the mainprocess
- 4 malfunctioning of the mainprocess
- 5 mainprocess does not exist

***autoload illegal command received, value < value >

an illegal command with < value > has been received from the device controller. This can only happen i case of system fault or in case of malfunctioning fpa.

***autoload illegal format of load file

the< load file> does not contain a load system of the load system
or the load system is generated in a wrong way.

RETURN LETTER

Title: AUTOLOAD

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RC8000 AUTOLOAD-programUse

The fp utility program 'autoload' is used for autoload of device controllers connected to RC8000 via FPA801 controller. The load information must be present as a file on the backing storage.

Call

<main process> = autoload <loadfile><start spec>
where
<main process> is the name of the main process running the fpa in question,
<loadfile> is the bs area holding the front end system, and
<start spec>::= start.yes/start.no/<empty>

<start spec> is a statement which determines whether the autoload should be followed by a start of communication (master clear) on the line.
Default is 'start.yes'.

Function

By initiating an autoload function on the fpa, the controller is forced to start its autoload sequence, which as a standard reads the device number of the load medium on the switch panel. Loading the controller from RC8000 implies that the switches must point out the fpa (in RC8301 normally switch no 0, 10, 13 and 14 corresponding to device no 8.46). The autoload sequence now transfers a load command to RC8000, and the first block is transferred from the load file to the device controller. The next command is delivered to the autoload program in RC8000 causing another block to be transferred to the controller, and block by block is transferred in this way, controlled by the loadprogram in the controller. When an end command is received, the block transfer is terminated and the communication to the device controller is started with a master clear operation, depending on the option <start spec>.