M21 Ports File

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Table of Contents

Chapter 1. M21 Ports File

hello Information about terminal and printer devices is held in the *$DBNAME.ports* file which can be found in the directory where the database was placed by *dbinit* when it was created. *$DBNAME* in the file name is the name of the database as specified also at database creation time. The file is a text file and may be edited with any UNIX editor. It is checked periodically by the system watchdog process *mpswd* and any updates to the file will be dynamically applied to the running M21 system.

Following is a description of the keywords that can be specified in the Ports file, their meaning and possible values. To include comments in this configuration file prefix them with " ## ".

Table 1-1. Ports File Settings

Keyword	Description
BLOCKONOPEN	When opening a physical device, should the open wait for carrier. Valid values are: Y for yes or N for no. Used only if CLASS=PD . Optional, default is N .
CLASS	How M21 is connected to the port. This keyword is required for every device. Valid values are: HS Host Spooler PD Physical Device TD Tape Drive
COMMAND	Command to use to access the host print spooler. Required if CLASS=HS .
DATABITS	The number of data bits in a character. Valid values are: 7 and 8 . Used only if CLASS=PD . Optional, default is 8 .
DEVICE	Device name on the local host. Used only if CLASS=PD . Required.
DRIVENUMBER	Tape drive number. Valid values are: 0 - 49 . Used only if CLASS=TD . Required.
END!	This is a marker to indicate the end of the group of key words that describe a single port configuration. Required.
PADCHAR	Decimal value of character to be used as padding on the close of port. Valid values are: 0 - 127 . Used only if TYPE=PRINTER . Optional, default is 0 .
PADCOUNT	The number of pad characters to send on close of port. Valid values are: 0 - 30000 . Used only if TYPE=PRINTER . Optional, default is 0 .
PARITY	Type of parity to use. Valid values are: N for none, E for even, O for odd. Used only if CLASS=PD . Optional, default is N .

Keyword	Description
PORT	This must be the first in the group of keywords, the rest of the keywords will define parameters for the port. Valid ranges are `1 - 6999` , `7000 - 7049` , and `8100 - 8499` . Required.
SPEED	The speed [baud rate] of the port. Valid values are: `300` , `1200` , `2400` , `4800` , `9600` , `19200` , `38400` . Used only if `CLASS=PD` . Optional, default is `9600` .
STOPBITS	Number of stop bits in a character. Valid values are: `1` and `2` . Used only if `CLASS=PD` . Optional, default is `1` .
TYPE	What type of equipment is connected to this port. Valid values are: `INSTRUMENT` , `MODEM` , `PRINTER` , `TAPE` and `TERMINAL` . Required.
XOFF	Input [device to M21] and Output [M21 to device] xoff flow control enabled. Valid values are: `Y` for yes, `N` for no. Used only if `CLASS=PD` . Optional, default is `Y` .

Examples

```
## Analyser Instrument
PORT=5
CLASS=PD
TYPE=INSTRUMENT
DEVICE=/dev/tty01
SPEED=9600
PARITY=N
END!


## Physical Printer
PORT=7
CLASS=PD
TYPE=PRINTER
DEVICE=/dev/tty01
SPEED=9600
PARITY=E
XOFF=Y
END!


## Tape Drive
PORT=7000
CLASS=TD
TYPE=TAPE
DRIVENUMBER=0
END!
```

```
## Host Spool Device
PORT=8100
CLASS=HS
TYPE=PRINTER
COMMAND=lp -dprinter1
END!
```